

Think Automation and beyond...

Ø30 mm Switches & Pilot Lights TWN/TWND Series

New TWN/TWND Series

IDEC CORPORATION

Simplicity. Reliability. Find both with our new *universal* contact blocks.

Universal Contact Blocks

Same contact blocks used in four product series.*

Same contact blocks are used in 22, 30, and 25 mm switches & pilot lights, improving the level of safety and reducing labor and stocking costs.







ø22 TW Series

ø22 HW Series

ø25 TWS Series

* Scheduled late 2017.



Electric shock protection

IP20 contact block with integrated terminal cover prevents electric shocks.



Improved Visibility

Blue or reddish purple

Contact blocks are blue (NO) or reddish purple (NC) for easy visual identification.



NO contact

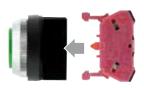
NC contact



Labor saving Snap-f

Snap-fit installation/easy removal

Contact blocks can be installed on the operator by snapping into place, and can be removed easily using a flat screwdriver.



Install



Remove

Usability Two-way wire entry points

Wiring is possible from two directions. Various crimp teminals, including ring or fork terminals, can be used.





Captive spring-up terminals

Wiring is easy with IDEC's unique captive spring-up terminal that prevents screws from falling.



Reliability

Reliable contacts

Stable and reliable contacts with wiping action.



Wiping action contacts

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Ø30 Switches & Pilot Lights

TWN/TWND Series

Datasheet

Over 60 years of experience

Since 1958, IDEC has been relentlessly developing control switches that provide high level of safety and operability.



Plastic TWN Series

The all-time bestseller since first developed. Suitable for versatile applications.



Diecast Zinc TWND series

Heavy-duty switches for tough industrial usage.

















Selection Guide Function Pushbutton Ratings/ Specifications Extended with Full Shroud Mushroom with Full Shroud Mushroom Category Momentary/Maintained Momentary/Maintained LED Ratings Momentary/Maintained **Diecast Zinc Diecast Zinc Diecast Zinc** Specifications Degree of Protection Shape Ordering Part No. Development ABN2F ABFD2 ABN3 ABD3 ABN3G ABGD3 Model AON2F AOFD2 AON3 AOD3 AOGD3 14 30 15 31 15 31 Page **TWN Series**

Function Pushbutton Jumbo Mushroom Jumbo Mushroom with Shallow Shroud Jumbo Mushroom with Deep Shroud Category Momentary Momentary Momentary **Diecast Zinc Diecast Zinc** Diecast Zinc Shape Model ABN4 ABD4 ABN4G ABGD4 ABN4F ABFD4 15 31 31 15 31 Page 15

[Function		Pushbutton								
	Category	Category Mushroom Pushlock Turn Reset (*1) Shape Diecast Zinc		Mushroom P	ush Turn Lock	Mushroom Pull					
• 	Shape				Diecast Zinc	1	Diecast Zinc				
	Model AVN3 AVD3		AJN3 AJD3		AZN3	AZD3					
	Page	16	32	16	32	16	32				

Function		Pushbutton					
Category	Mushroom Push-Pull		Pin Lock				
Shape	_	Diecast Zinc	_	Diecast Zinc			
Model	_	AYD3	_	ABD8P			
Page	_	32		31			

*1) Cannot be used as emergency stop switch based on ISO 13850 and IEC 60947-5-5.

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TWND Series Diecast Zinc

Accessories Instructions Part No. Comparison

Function			ed Pushbutton				
Catagory	Extended		Extended wit	h Half Shroud	Extended with Full Shroud		
Category	Momentary	/Maintained	Momentary	/Maintained	Momentary	/Maintained	
		Diecast Zinc	-	Diecast Zinc	-	Diecast Zinc	
Shape	ð)	_			
Madal	ALN2	ALD2	ALGN2		ALFN2	ALFD2	
Model	AOLN2	A0LD2	AOLGN2	—	AOLFN2	A0LFD2	
Page	Page 17 33		17		17	33	

							Selection Guide		
Function		LED Illuminated Pushbutton							
Ostanomi	Must	nroom	Mushing and Dushi		Mushingan	hash Tama Lasta	Ratings/ Specifications		
Category	Momentary	/Maintained	– Mushroom Pushlock Turn Reset (*1)		Mushroom Push Turn Lock		LED Ratings		
		Diecast Zinc		Diecast Zinc		Diecast Zinc	Specifications		
Shape						_	Degree of Protection		
							Ordering		
							Part No.		
Maslal	ALN3	ALD3	AV/L N/O	414 DO			Development		
Model	AOLN3	AOLD3	AVLN3	AVLD3	AJLN3	_			
Page	18	34	18	34	18		TWAL Covies		
, i i i i i i i i i i i i i i i i i i i	1	I			2		TWN Series		
							TWND Series		

Function							
Category	Knob		Le	ver 671	Кеу		
Shape		Diecast Zinc	No.	Diecast Zinc)	Diecast Zinc	
Model	ASN	ASD	ASN□L	ASD□L	ASN□K	ASD□K	
Page	20	35	21	36	22	37	

Function		Selector Switch	Selector Pushbutton			
Category	Кеу	LED Illumir	nated Knob	Ring Operator		
Shape	C	Diecast Zinc			Diecast Zinc	
Model	ASN□K-N024401	ASLN	ASLD	ASBN2	ASBD2	
Page	23	24	38	27	39	

Function	LED Illuminated Pilot Light						
Category	Do	me	Square Extended (IP40)	Rectangular (Marking) (IP40)			
Shape		Dome S Diecast Zinc Come S Diecast Zinc Come S Diecast Zinc Come S Diecast Zinc		(
Model	APN1	APD1	UPQN3B	UPQN4			
Page	28	40	28	28			

*1) Cannot be used as emergency stop switch based on ISO 13850 and IEC 60947-5-5.

Accessories Instructions Part No. Comparison

TWND Series Diecast Zinc

Heavy duty switches & pilot lights offer both variety and reliability. Endures harsh environments.

Equipped with HW-U contact blocks featuring finger-safe (IP20) structure and spring-up terminals.



Applicable Standards	Mark	File No. or Organization	
UL508	LISTED	UL Listing File No.E68961	
CSA C22.2 No.14	۲¢ ۲	CSA File No. LR 21451	
EN60947-5-1	Δ	TÜV Rheinland	
EN60947-5-1	CE	EU Low Voltage Directive and RoHS2 Directive (except for DC-DC converter unit)	
GB14048.5		Contact IDEC for details.	

• Pilot light is not approved by EN standards.

• DC-DC convertor unit is not approved by standards.

Ratings and Specifications

Contact ratings

Pushbuttons	Rated insulation voltage	600V	
Illuminated Pushbuttons	Rated continuous current	10A	
Selector Switches Illuminated Selector Switches Selector Pushbuttons	Contact ratings by utilization category JIS C8201-5-1 IEC60947-5-1	AC-15 (A600) DC-13	6

Contact ratings by utilization category

HW-U10 (NO contact), HW-U01 (NC contact)

Operating Voltag	Operating Voltage			48V	50V	110V	220V	440V
	AC	AC-12 Control of resistive loads and solid state loads	10A	-	10A	10A	6A	2A
Operating	50/60 Hz	AC-15 Control of electromagnetic loads (> 72 VA)	10A	-	7A	5A	ЗA	1A
Current	DC	DC-12 Control of resistive loads and solid state loads	10A	5A	-	2.2A	1.1A	-
		DC-13 Control of electromagnets	5A	2A	-	1.1A	0.6A	-

HW-U10R (EM contact/NO contact), HW-U01R (LB contact/NC contact)

	Operating Voltage	Operating Voltage			48V	50V	110V	220V	440V
		AC	AC-12 Control of resistive loads and solid state loads	5A	-	5A	5A	ЗA	1A
;	Operating	50/60 Hz	AC-15 Control of electromagnetic loads (> 72 VA)	5A	-	3.5A	2.5A	1.5A	0.5A
	Current	DC	DC-12 Control of resistive loads and solid state loads	5A	2.5A	_	1.1A	0.55A	_
		DC	DC-13 Control of electromagnets	2.5A	1A	-	0.55A	0.3A	_

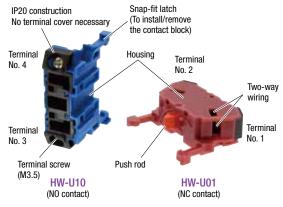
• The operating current represents the classification by making and breaking currents (IEC 60947-5-1).

Silver contacts

• Minimum applicable load: 3V AC/DC, 5 mA (applicable range may vary with operating conditions and load types)

• For mono-lever switches and cam switches, see the brochures of each product.

HW-U Contact Block



Part No.	HW-U10	HW-U01	HW-U10R	HW-U01R	
Contact					
oontaat	1N0	1NC	EM (NO) (early make)	LB (NC) (late break)	
Terminal No.	3-4	1-2	3-4	1-2	
Housing color	Blue	Reddish purple	Blue	Reddish purple	
Push Rod color	Green	Red	Black	White	
Weight Approx. 11g					

• Up to 4 contacts in two decks can be mounted onto each operator.

(AZN, AZD, AYD: Up to 2 contact blocks in one deck)

Cannot be used on operators in dark gray or light gray color.

Gold contact available (gold-plated silver)



Selection Guide

Specification

LED Ratings

Specifications Degree of Protection

Ordering Part No. Development

TWN Series TWND Series Diecast Zinc

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Selection Guide Ratings/ Specifications

LED Ratings

Specifications

Degree of Protection Ordering

Part No. Development

TWN Series

TWND Series Diecast Zinc

Accessories

Instructions Part No. Comparison

LED Illuminated Unit Ratings

Linit				LED lamp			
Unit Color		Rated Voltage		Operating Voltage		Lamp Base	Part No.
		6V AC/DC		6V AC/DC		-	LSTD-6*
		12V AC/DC		12V AC/DC			LSTD-1*
		24V AC/DC		24V AC/DC	1		LSTD-2*
	D (115 -1)	100/110V AC		100/110V AC		BA9S/13	
	R (red) G (green) Y (yellow) A (amber) W (white) S (blue) PW (pure white)	115/120V AC (*1)	-	115/120V AC (*1)	±10%		
Illuminated pushbutton		120V AC (*2)		120V AC (*2)			
Illuminated selector switch		200/220V AC		200/220V AC			
Pilot light		230/240V AC (*1)	50/60 Hz	230/240V AC (*1)			
		240V AC (*2)		240V AC (*2)			LSTD-6*
		380V AC		380V AC			
		400/440V AC		400/440V AC			
		480V AC		480V AC			
		110V DC		90 to 140V DC			

See LED lamps, see LED Lamp Ratings below.
Specify a color code in place of *.

R (red), G (green), A (amber), W (white), S (blue), PW (pure white)

• Use a pure white (PW) LED for yellow (Y) illumination.

Note the polarity for wiring when connecting to DC-DC converter unit.
Color codes for units without LED lamps: R (red), G (green), A (amber), Y (yellow), W (white), S (blue)

When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape. Make sure of correct operation before installation. The operation of TWN/TWND series cannot be guaranteed when a commercially available lamp is used. *1) Illuminated pushbutton, illuminated selector switch

Power Unit Terminal

1) Illuminated pushbutton, illuminated selector switch 2) Pilot light Power Unit Terminal								
Power Unit	l erminai	Illuminate	d Unit	.*0		Pilot	Light	
Power Unit	Full voltage adapter	Transformer		DC-DC converter	Full voltage adapter (unibody)	Transformer	DC-DC converter	
Rated Voltage	6V, 12V, 24V AC/DC	100 to 240V AC	380V AC min.	110V DC	6V, 12V, 24V AC/DC	100 to 480V AC	110V DC	
Polarity	None	None	None X1 (+) X2 (-)		None	None	X1 (+) X2 (–)	
Shape/Terminal	X1	X1 X2	x2 (*)		x2 (APN1)		X1 X2	

LED Lamp Ratings (LSTD)

	p natingo (
Part No.		LST	D-6*	LSTD-1*	LSTD-2*	
Lamp Base		BA9S/13				
Rated Voltage	e	6V AC/DC		12V AC/DC	24V AC/DC	
Voltage Rang	je	6V AC/DC ±10%		12V AC/DC ±10%	24V AC/DC ±10%	
	Color	R, A, W	G, S, PW	R, G, A, W, S, PW	R, G, A, W, S, PW	
Current Draw	DC	7mA	5.5mA	10mA	10mA	
Diaw	AC	8mA	8mA	11mA	11mA	
Lamp Base C	Color	Same as illuminat	ion color (PW: gray)			
Voltage Mark	king	Ig Die stamped on the base				
Life (reference value) Approx. 50,000 hours (The luminance is reduced to 50% the initial intensity when used on complete DC at 25°C.)					ete DC at 25°C.)	
Internal Circuit		X 1 ° Symbols Example: LSTD-2PW K 2 ° Example: LSTD-2PW Rectifier diode Resistor Base color				
Weight		Approx. 2g				

• Specify a color code in place of *.

R (red), G (green), A (amber), W (white), S (blue), PW (pure white)

• Use a pure white (PW) LED for yellow (Y) illumination.

Specifications

		Non-illuminated: -25 to +70°C (no freezing)		
		Illuminated: -25 to +50°C (no freezing)		
		-40 to $+80$ °C (no freezing)		
		45 to 85% RH (no condensation)		
		$50 \text{ m}\Omega$ maximum (initial value)		
		100 MΩ minimum (500V DC meager)		
		Between live and dead metal parts: 2,500V AC, 1 minute		
		(Full voltage and pilot lights: 2,000V AC, 1 minute)		
		2000V AC, (pilot lights: 6V AC/DC, 12V, 24V)		
amage limits		30 Hz, amplitude 1.5 mm		
peration extremes		5 to 55 Hz, amplitude 0.5 mm		
amage limits		1000 m/s ²		
peration extremes		100 m/s ²		
	Momentary	5,000,000		
uebbutten	Maintained	500,000 (over 3 contacts: 250,000)		
usindution	Push lock turn reset	500,000		
	Pull	500,000		
luminated pushbutton	Momentary	2,500,000		
iuminated pushbutton	Maintained	500,000 (over 3 contacts: 250,000)		
Selector switch		500,000		
Key selector switch		500,000		
luminated selector switch	1	500,000		
Selector pushbutton		250,000		
	Momentary	500,000 Switching frequency 1800 operations/h, duty ratio 40%		
Pushbutton	Maintained	500,000 (over 3 contacts: 250,000) Switching frequency 900 operations/h, duty ratio 40%		
	Push lock turn reset	500,000 Switching frequency 900 operations/h, duty ratio 40%		
	Momentary	500,000 Switching frequency 1800 operations/h, duty ratio 40%		
luminated pushbutton	Maintained	500,000 (over 3 contacts: 250,000) Switching frequency 900 operations/h, duty ratio 40%		
elector switch		500,000 Switching frequency 1200 operations/h, duty ratio 40%		
ey selector switch		500,000 Switching frequency 1200 operations/h, duty ratio 40%		
luminated selector switch	1	500,000 Switching frequency 1200 operations/h, duty ratio 40%		
elector pushbutton	NOCK A	250,000 Switching frequency 900 operations/h, duty ratio 40%		
	Pushbutton	ABN122: 82g ABN322: 87g		
	Illuminated pushbutton	ALN22222DN: 106g ALN21622DN: 163g		
WN series	Selector switch	ASN222N: 83g ASN2K22N: 120g		
5100	Illuminated selector switch	ASLN22222DN: 106g ASLN21622DN: 163g		
	Pilot light	APN122DN: 46g APN116DN: 125g		
	Pushbutton	ABD122: 108g ABD322: 113g		
	Illuminated pushbutton	ALD22222DN: 132g ALD21622DN: 189g		
WND series	Selector switch	ASD222N: 110g ASD2K22N: 147g		
	Illuminated selector switch	ASLD22222DN: 133g ASLD21622DN: 190g		
Pilot light /		APD122DN: 75g APD116DN: 152g		
	Deration extremes amage limits Deration extremes ushbutton uminated pushbutton elector switch ey selector switch uminated selector switch elector pushbutton uminated pushbutton elector switch elector switch ey selector switch ey selector switch uminated selector switch uminated selector switch uminated selector switch	Amage limits peration extremes amage limits peration extremes Amage limits peration extremes Amage limits peration extremes Amage limits peration extremes Amage limits Pushock turn reset Pull Momentary Maintained Persent Selector switch elector switch elector pushbutton Amage limits person switch elector switch elector switch elector switch push lock turn reset Momentary Maintained Push lock turn reset Momentary Maintained Push lock turn reset Momentary Maintained elector switch elector switch elector switch elector pushbutton NN series NN series NND series Pushbutton NND series Pushbutton Momentary Maintained Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton NND series Pushbutton NND series Pushbutton NND series Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Push		

*1) Load condition 220V AC 3A (AC-15) Instructions

Part No. Comparison

Degree of Protection

Series	Unit	Model	IEC 60529	JIS C 0920	
	Pushbutton	ABN, AON, AVN			
	Illuminated pushbutton	ALN, AOLN, AVLN			
	Selector switch	ASN, ASN L			
TWN corios	Key selector switch	ASN□K	IP65	Dust-proof/jet-proof	
TWN series	Illuminated selector switch	ASLN			
	Selector pushbutton	ASBN			
	Round pilot light	APN			
	Square pilot light	UPQN	IP40	_	
	Pushbutton	ABD, AOD, AVD			
	Illuminated pushbutton	ALD, AOLD, AVLD			
	Selector switch	ASD, ASD□L			
TWND series Diecast zinc	Key selector switch	ASD□K	IP65	Dustproof/jet-proof	
Diecast zinc	Illuminated selector switch	ASLD			
	Selector pushbutton	ASBD			
	Round pilot light	APD			

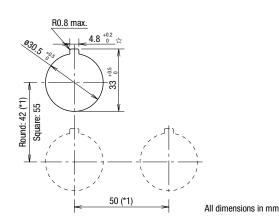
• Switches/pilot lights have been tested in a test room in accordance with the degree of protection standards, by installing on an enclosure to valuate the effect on the enclosure or inside the switch or pilot light.

For harsh environment such as torrid/frigid area

TWN/TWND series for harsh environment such as tropical/frigid area is also available (not approved by standards). Contact IDEC for details.

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Mounting Hole Layout/Mounting Centers



- The minimum mounting centers are applicable to pilot lights with one layer of contact blocks (one to two contact blocks). When two layers of contact blocks (four contact blocks) are mounted, determine the minimum mounting centers in consideration of convenience for wiring.
- *1) Mushroom with shroud: 50 mm minimum
- *1) Jumbo mushroom: 67 mm minimum
- *1) Jumbo mushroom with shroud: 77 mm minimum
- The 4.8 ^{+0.2}₋₀ mm recess is for preventing rotation and is not necessary when the nameplate or anti-rotation ring is not used.
- Note: For mounting hole layout of mono-lever switches and cam switches, see IDEC's website.

Notes for Ordering

Standard models

- Specify Ordering No. when ordering.
- Specify a color code in place of *
- Pilot lights, illuminated pushbuttons, and illuminated selector switches have an LED lamp installed.
- Pilot lights are equipped with a terminal cover.
- Color codes for units without LED lamps:
- R (red), G (green), A (amber), Y (yellow), W (white), S (blue)

When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape. Make sure of correct operation before installation. The operation of TWN/TWND series cannot be guaranteed when a commercially available lamp is used.

- Terminal covers, nameplates, and accessories for mono-lever switch and cam switch are ordered separately.
- For terminal cover, nameplate and other accessories of mono-lever switches and cam switches, see IDEC's website.

Ordering Information

Pushbutton

When specifying gold-plated silver contact and contact configuration:

TWN aprion (Page 14 to 16)		<codes></codes>	
TWN series (Page 14 to 16)		① Optional	l contact
ABN 2 <u>11</u> R - <u>MAU</u>		MAL	J: Gold-plated silver
	© Optional contact © Contact configuration	10:	configuration 1NO 1NC
		11:	1N01NC
TWND series (Dags 20 to 20)		20:	2N0
TWND series (Page 30 to 32)		02:	2NC
ABD 2 11 NR - MAU		22:	2N02NC
	① Optional contact	40:	4N0
		04:	4NC
	© Contact configuration	13:	1NO3NC
	-	31:	3N01NC
		30:	3N0
		03:	3NC
		12:	1NO2NC
		21:	2N01NC

Note:

• Pushbutton with one or three contact blocks contains a dummy block.

• Mushroom pull pushbuttons AZN, AZD and mushroom push-pull AYD have up to two contacts in one layer.

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TWN Series

Selection Guide Ratings/ Specifications

LED Ratings

Degree of Protection

Orderina

Part No. Developmer

TWND Series Diecast Zinc

Accessories

Instructions Part No.

Comparison

Ordering Information

Illuminated Pushbutton

When specifying gold-plated silver contact, contact configuration, and LED operating voltage:

	TWN series (Page 17 to 19) ALFN 2 <u>126 13</u> DN R - <u>MAU</u> ① Optional contact ② Contact configuration ③ Operating voltage TWND series (Page <u>33</u> to <u>34</u>)	<codes> ① Optional contact MAU: Gold-plated silver ② Contact configuration 10: 1NO 01: 1NC 11: 1N01NC 20: 2NO</codes>
Selection Guide	ALFD 2 <u>126 13</u> DN R - <u>MAU</u>	02: 2NC
Ratings/	ALI D 2 $\frac{120}{120}$ $\frac{13}{15}$ DN R - $\frac{MAO}{100}$ ① Optional contact	31: 3N01NC 22: 2N02NC
Specifications	© Contact configuration	13: 1NO3NC
LED Ratings	③ Operating voltage	40: 4NO
		04: 4NC
Specifications		③ Operating voltage
Degree of		99: Without LED lamp
Protection		66: 6V AC/DC
Ordering		11: 12V AC/DC
Ű		22: 24V AC/DC
Part No. Development		16: 100/110V AC
Development		126: 115/120V AC
		26: 200/220V AC
		246: 230/240V AC
TWN Series		386: 380V AC 46: 400/440V AC
TWND Series		46: 400/440V AC
Diecast Zinc	Note: • Odd number of contact blocks, such as 1N0, 1NC, 3NO, 2NO-1NC, 1NO-2 • Illuminated pushbuttons of 24V AC/DC and below with two or four contact • See page 13 for how to specify 110V DC model (DC-DC converter). • Color codes for units without LED lamps: • proof 0 (arcson) 4 (archor) V (vallew) W (vibita) S (blue)	NC, and 3NC, are not available for models of 100V AC or over.

R (red), G (green), A (amber), Y (yellow), W (white), S (blue) When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape.

Selector Switch

When specifying gold-plated silver contact and contact configuration:

2 Contact configuration

TWN series (Page 20 to 23)

ASN 2 <u>11</u> N - <u>MAU</u> ① Optional contact TWND series (Page 35 to 37) ASD 2 <u>11</u> N - <u>MAU</u> ① Optional contact

② Contact configuration

<Codes> 0 Optional contact MAU: Gold-plated silver

Accessories Instructions

Part No. Comparison

Key removable position code (example)

Position		Kay removable position	Key removable	Part No. Example			
	POSILION	Key removable position	position code		TWN series	TWND series	
		Removable in all positions	(blank)	ASN2K20N	ASN2K20N-N024401	ASD2K20N	
	Maintained	Removal in left only	В	ASN2K20NB	ASN2K20NB-N024401	ASD2K20NB	
2-position		Removable in right only	C	ASN2K20NC	ASN2K20NC-N024401	ASD2K20NC	
	Spring return from right	Removal in left only	(blank)	ASN21K20N	ASN21K20N-N024401	ASD21K20N	
	Spring return from left	Removable in right only	(blank)	ASN22K20N	ASN22K20N-N024401	ASD22K20N	
		Removable in all positions	(blank)	ASN3K20N	ASN3K20N-N024401	ASD3K20N	
	Maintained	Removable in left and center	В	ASN3K20NB	ASN3K20NB-N024401	ASD3K20NB	
		Removable in right and center	C	ASN3K20NC	ASN3K20NC-N024401	ASD3K20NC	
		Removable in center only	D	ASN3K20ND	ASN3K20ND-N024401	ASD3K20ND	
		Removable in right and left	E	ASN3K20NE	ASN3K20NE-N024401	ASD3K20NE	
		Removal in left only	G	ASN3K20NG	ASN3K20NG-N024401	ASD3K20NG	
2 position		Removable in right only	Н	ASN3K20NH	ASN3K20NH-N024401	ASD3K20NH	
3-position		Removable in left and center	(blank)	ASN31K20N	ASN31K20N-N024401	ASD31K20N	
	Spring return from right	Removable in center only	D	ASN31K20ND	ASN31K20ND-N024401	ASD31K20ND	
		Removal in left only	G	ASN31K20NG	ASN31K20NG-N024401	ASD31K20NG	
		Removable in right and center	(blank)	ASN32K20N	ASN32K20N-N024401	ASD32K20N	
	Spring return from left	Removable in center only	D	ASN32K20ND	ASN32K20ND-N024401	ASD32K20ND	
		Removable in right only	Н	ASN32K20NH	ASN32K20NH-N024401	ASD32K20NH	
	Spring return two-way	Removable in center only	(blank)	ASN33K20N	ASN33K20N-N024401	ASD33K20N	

• The key cannot be removed in spring return positions.

Ordering Information

Illuminated Selector Switch

When specifying gold-plated silver contact, contact configuration, and LED operating voltage:

	-	
TWN series (Page 24)		<codes></codes>
ASLN 2 <u>16 22</u> DN - <u>MAU</u>	— ① Optional contact	① Optional contact MAU: Gold-plated silver
	Optional contact Optional contact @ Contact configuration (see page 25 to 26) ③ Operating voltage	③ Operating voltage 99: Without LED lamp 66: 6V AC/DC
TWND series (Page <mark>38</mark>) ASLD 2 16 22 DN - MAU	S operating relaye	11: 12V AC/DC 22: 24V AC/DC 16: 100/110V AC
	① Optional contact ② Contact configuration ③ Operating voltage	136: 115/120V AC 26: 200/220V AC 256: 230/240V AC 386: 380V AC
		46: 400/440V AC

486: 480V AC

tech.com 00.6536

Note:

• Odd number of contact blocks, such as 1NO, 1NC, 3NO, 2NO-1NC, 1NO-2NC, and 3NC, is not available for models of 100V AC or over.

• Illuminated selector switches of 24V AC/DC and below with two or four contact blocks contain a dummy block.

• See below for how to specify 110V DC model (DC-DC converter).

Color codes for units without LED lamps: R (red), G (green), A (amber), Y (yellow), W (white), S (blue) When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape.

<Codes> ① Operating voltage

66:

11:

22:

16:

26:

99: Without LED lamp

6V AC/DC

12V AC/DC

24V AC/DC

126: 115/120V AC 200/220V AC

246: 230/240V AC

386: 380V AC 46: 400/440V AC

100/110V AC

Pilot Light (LED)

When specifying LED operating voltage:

TWN series (Page 28 to 29)

APN1 26 DN R

① Operating voltage

① Operating voltage

TWND series (Page 40)

APD1 26 DN R

UPQN3B 22 D R

Operating voltage

486: 480V AC • See below for how to specify 110V DC model (DC-DC converter).

Color codes for units without LED lamps: R (red), G (green), A (amber), Y (yellow), W (white), S (blue)

When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape.

DC-DC Convertor Model (110V DC)

When specifying DC-DC convertor type on illuminated pushbuttons, illuminated selector switches, and pilot lights:

TWN series

ALN2 16 22D DN G ① Operating voltage <Codes> ① Operating voltage 16 D: 110V DC

ASLN2 16 11D DN Y

① Operating voltage

APN1 16 D DN R

① Operating voltage

TWND series

ALD2 16 22D DN G

① Operating voltage

ASLD2 16 11D DN Y

Operating voltage

APD1 16 D DN R

① Operating voltage

• See 110V DC model (DC-DC converter) is not approved by standards (operating voltage: 90 to 140V DC).

Odd number of contact blocks, such as 1NO, 1NC, 3NO, 2NO-1NC, 1NO-2NC, and 3NC, is not available for 100V DC model (DC-DC converter).

Selection Guide

Ratings/ Specifications

LED Ratings

Specifications

Degree of Protection

Orderina

Part No. Developme

TWN Series TWND Series Diecast Zind

Accessories Instructions

Part No.	
Comparison	

Flush/Extended/Extended w/Half Shroud/Extended with Full Shroud

							Package Quantity: 1
	Shape	Operation	Contact	Part No. (Ordering No.)	Button Color Code	Dimensions	(All dimensions in mm.)
	Flush		1N0	ABN110*	В		
	ABN1 AON1		1NC	ABN101*	G		
	AONT	Momentary	1N0-1NC	ABN111*	R Y		
		Momentary	2N0	ABN120*	S		nel Thickness 0.8 to 7.5
			2NC	ABN102*	W		
			2NO-2NC	ABN122*	Note	₩ ₩	lag −{((()))))
	•		1N0	A0N110*	В		
			1NC	A0N101*	G R	45.4 (1 or 2 blocks)	29.6
Selection Guide		Maintained	1NO-1NC	A0N111*	- Y	65.4(3 or 4 blocks) 9	ø39
Ratings/			2N0	A0N120*	S		
Specifications			2NC	AON102*	W Note		
LED Ratings	Futureday		2N0-2NC	AON122*	Note		
	Extended ABN2		1N0 1NC	ABN210*	В		
Specifications	AON2		1NO-1NC	ABN201* ABN211*	G		
Degree of		Momentary	2N0	ABN211* ABN220*	R Y	Dar	Panel Thickness 0.8 to 7.5
Protection			2NO 2NC	ABN202*	S		
Ordering			2NO-2NC	ABN202*	W		
Part No.			1N0 2N0	A0N210*			
Development		Maintained	1NC	A0N201*	В	45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 14	
			1NO-1NC	A0N211*	G R		<u>29.6</u> ø39
			2N0	A0N220*	Y		
TWN Series			2NC	A0N202*	S		
TWND Series Diecast Zinc			2N0-2NC	A0N222*	W	20	
Diecast Zinc	Extended with Half Shroud		1N0	ABN2G10*	6		
	ABN2G		1NC	ABN2G01*	BO-		
Pushbutton	AON2G	Mamantani	1N0-1NC	ABN2G11*	R		
		Momentary	2N0	ABN2G20*	Y	Panel	Thickness 0.8 to 3.5
Illuminated Pushbutton			2NC	ABN2G02*	S W		
Selector			2N0-2NC	ABN2G22*	VV		32 98
Switch		NUT	1N0	AON2G10*	В		924 93
Selector Pushbutton			1NC	AON2G01*	G	40.9 (1 or 2 blocks) 18.5	29.6
Pilot Light		Maintained	1NO-1NC	AON2G11*	R	60.9 (3 or 4 blocks) 20.5	ø39
			2N0	AON2G20*	Y S		
			2NC	AON2G02*	- W		
A0000000	Extended with Full Chroud		2N0-2NC	AON2G22*			
Accessory	Extended with Full Shroud ABN2F		1N0	ABN2F10*	В		
Instructions	A0N2F		1NC 1NO-1NC	ABN2F01*	G		
Part No.		Momentary	2N0	ABN2F11* ABN2F20*	R Y		
Comparison			2N0 2NC	ABN2F20*	S		nel Thickness 0.8 to 6
			2NO-2NC	ABN2F02*	W	I I I I	
			1N0	A0N2F10*		╤┤┤┛╌╌╴┨╸╌╴╴┝╍╼┼┤╟┨╂╌	828 24 932
			1NC	AON2F01*	В		
			1N0-1NC	AON2F11*	G R	45.4 (1 or 2 blocks) 14	
		Maintained	2N0	AON2F20*	n Y	65.4 (3 or 4 blocks) 16.	<u>ø</u> 39
			2NC	AON2F02*	S		
			2N0-2NC	AON2F22*	W		
	L					L	

• Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow), S (blue), W (white)

• Round bezel and shroud (metal): Chrome-plated

• Pushbuttons with 1 or 3 contact blocks have a dummy block.

• See page 11 for other contact configurations and gold-plated silver contacts.

• See page 16 for bottom view.

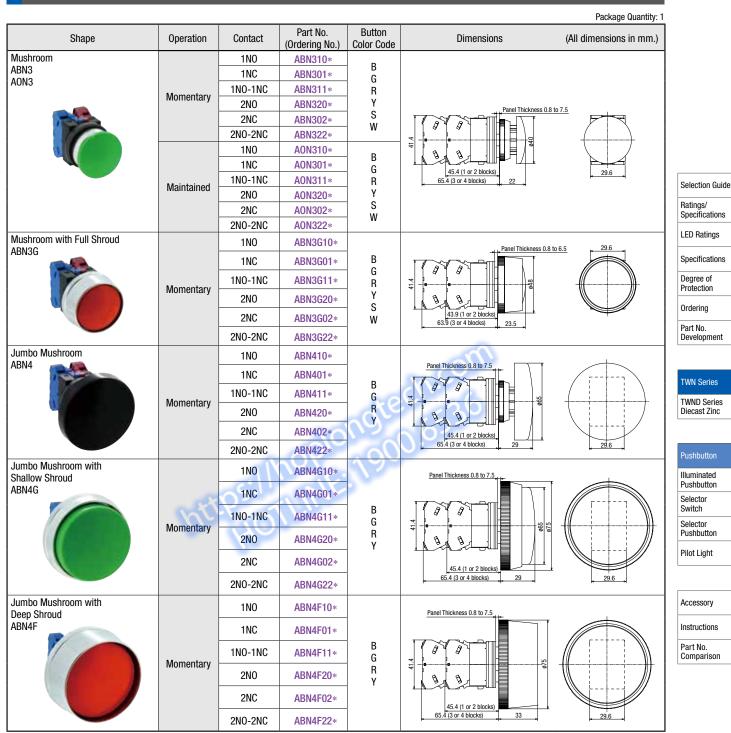
• Terminal screws: M3.5

· Integrated terminal cover

Note ABN1, AON1 with button color of B (black), G (green), or (R) red

Supply of color buttons B, G, R has been discontinued for ABN1/AON1 without color code.

When ordering, make sure to specify the required button code.



Mushroom/Mushroom w/Full Shroud/Jumbo Mushroom/Jumbo Mushroom w/Shallow Shroud/Jumbo Mushroom w/Deep Shroud

• Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow), S (blue), W (white)

Round bezel and shroud (metal): Chrome-plated

· Pushbuttons with 1 or 3 contact blocks have a dummy block.

• See page 11 for other contact configurations and gold-plated silver contacts.

See page 16 for bottom view.

Terminal screws: M3.5

Integrated terminal cover

Mushroom Pushlock Turn Reset/Mushroom Push Turn Lock/Mushroom Pull

					Р	ackage Quantity: 1		
	Shape	Contact	Part No. (Ordering No.)	Button Color Code	Dimensions (All dime	nsions in mm.)		
	Mushroom Pushlock Turn Reset (*1) AVN3	1N0	AVN310N*					
	AVINS	1NC	AVN301N*		Panel Thickness 0.8 to 7.5			
	1	1NO-1NC	AVN311N*	R				
		2N0	AVN320N*	Y				
		2NC	AVN302N*		45.4 (1 or 2 blocks)	29.6		
		2NO-2NC	AVN322N*		65.4 (3 or 4 blocks) 23.6			
Ostantian Ostat	Mushroom Push Turn Lock AJN3	1N0	AJN310N*		Panel Thickness 0.8 to 7.5			
Selection Guide		1NC	AJN301N*					
Ratings/ Specifications		1NO-1NC	AJN311N*	B G				
LED Ratings		2N0	AJN320N*	R Y		29.6		
Specifications		2NC	AJN302N*		45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 23.6			
-		2NO-2NC	AJN322N*					
Degree of Protection	Mushroom Pull AZN3	1N0	AZN310N*					
Ordering		1NC	AZN301N*		Panel Thickness 0.8 to 7.5	1		
Part No.		1NO-1NC	AZN311N*	B G R				
Development		2N0	AZN320N*		940	(-(-))		
		2NC	AZN302N*	Y	45.4 25.1 5.5 stroke	29.6		
TWN Series				\sim	<u>⊨ 10.1 ++ 20.1 ++</u>	H <u>2010</u> H		
TWND Series	 Specify a color code in place of * in Part N 	o, B (black), G (gree	en), R (red), Y (vellow)	200	20			

· Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow)

- Round bezel (metal): Chrome-plated
- Pushbuttons with 1 or 3 contact blocks have a dummy block.
- See page 11 for other contact configurations and gold-plated silver contacts.
- Mushroom pull has up to 2 contact blocks.
- Terminal screws: M3.5
- Integrated terminal cover
- *1) Pushlock turn reset switches cannot be used as emergency stop switches. When emergency stop switches are required, use XN or HN series emergency stop switches (ISO 13850 and IEC 60947-5-5 compliant).
- Pushbutton operation

Pushlock Turn Reset

Button is maintained when pressed and is reset when turned clockwise.

Push Turn Lock

Button is locked when turned clockwise in the depressed position and is reset when turned counterclockwise.

Dummy Block

Ð

B

Pull Pulling the button operates the contacts, and releasing the button return the contacts.

Accessory Instructions

Diecast Zinc

Illuminated

Pushbutton

Selector Pushbutton

Pilot Light

Selector

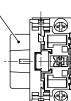
Switch

Part No. Comparison

Pull contact op	eration	
Contact	AZ	N3
COMAGE	Normal	Pull
1N0	ملو	1 0
2N0-2NC	₀-₀ •_●	• • •
2N0	میں میں	
2NC	•••	919 919

Bottom View (for non-illuminated pushbuttons and selector switches)

Dummy Block

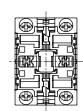


1 contact block (NO)

(NC: opposite position)



3 contact blocks





- Integrated terminal cover
- 2/4 contact blocks



LED Illuminated Extended/Extended with Half Shroud/Extended with Full Shroud

		1	1			ra	ckage Quantity: 1	
Shape	Base	Operation	Operating Voltage	Contact	Part No. (Ordering No.)	Color Code	Dimensions Page	
tended				1NO-1NC	ALN22211DN*			
.N2 DLN2			24V AC/DC	2N0	ALN22220DN*	_		
JLINZ				2NC	ALN22202DN*	R G		
				1NO-1NC	ALN21611DN*	Y		
		Momentary	100/110V AC	2N0	ALN21620DN*	Â		
				2NC	ALN21602DN*	W		
				1NO-1NC	ALN22611DN*	S PW		
			200/220V AC	2N0	ALN22620DN*	PVV		
(24VAC/DC)	D 400			2NC	ALN22602DN*			Selection G
	BA9S			1NO-1NC	AOLN22211DN*			Dotingo/
			24V AC/DC	2N0	AOLN22220DN*			Ratings/ Specificatio
Tranks.				2NC	AOLN22202DN*	R		LED Dating
				1NO-1NC	AOLN21611DN*	GY		LED Ratings
		Maintained	100/110V AC	2N0	AOLN21620DN*	A		Specificatio
41 (66)				2NC	AOLN21602DN*	W		Degree of
				1NO-1NC	AOLN22611DN*	S		Protection
With transformer			200/220V AC	2N0	AOLN22620DN*	PW		Ordering
(100/110V AC)				2NC	A0LN22602DN*			
ended with Half Shroud				1NO-1NC	ALGN22211DN*			Part No. Developme
2			24V AC/DC	2N0	ALGN22220DN*			2010/00/110
_GN2				2NC	ALGN22202DN*	R		
		Momontony		1NO-1NC	ALGN21611DN*	GY		TWN Series
		Momentary	100/110V AC	2N0	ALGN21620DN*	A		
		momontary	100/110V AC	2NC	ALGN21602DN*	Ŵ		TWND Seri Diecast Zin
				1NO-1NC	ALGN22611DN*	S		Diecast Zill
			200/220V AC	2N0	ALGN22620DN*	PW		
(24V AC/DC)			200/220V AC	2NC	ALGN22602DN*	_		Pushbutton
(2.11.10,2.0)	BA9S			1NO-1NC	ACLGN22202DN*		19	
			24V AC/DC	2N0	AOLGN22211DN*	-		Illuminated Pushbutton
The state		-n5.'	24V A0/D0	2N0 2NC	AOLGN22220DN*	R		Selector
				1NO-1NC		— G		Switch
		Maintained	100/110V AC	2N0	AOLGN21611DN*	Y		Selector
		Wannanieu	100/110V AC		AOLGN21620DN*	A W		Pushbuttor
				2NC	AOLGN21602DN*	- S		Pilot Light
With transformer			000/0001/ 40	1NO-1NC	AOLGN22611DN*	– PW		
(100/110V AC)			200/220V AC	2N0	AOLGN22620DN*	_		
. ,				2NC	AOLGN22602DN*			Accessory
ended with Full Shroud			0.01/10/00	1NO-1NC	ALFN22211DN*	-		
_FN2			24V AC/DC	2N0	ALFN22220DN*	R		Instructions
				2NC	ALFN22202DN*	G		Part No.
			100/110/100	1NO-1NC	ALFN21611DN*	Y		Compariso
1 Car		Momentary	100/110V AC	2N0	ALFN21620DN*	A W		
				2NC	ALFN21602DN*	S		
			000/0001115	1NO-1NC	ALFN22611DN*	– PW		
(24V AC/DC)			200/220V AC	2N0	ALFN22620DN*	_		
(BA9S			2NC	ALFN22602DN*			
				1NO-1NC	AOLFN22211DN*	_		
the state			24V AC/DC	2N0	AOLFN22220DN*	R		
				2NC	AOLFN22202DN*	– G		
				1NO-1NC	AOLFN21611DN*	_ Ÿ		
		Maintained	100/110V AC	2N0	AOLFN21620DN*	A		
				2NC	AOLFN21602DN*	W		
				1NO-1NC	AOLFN22611DN*	S PW		
With transformer			200/220V AC	2N0	AOLFN22620DN*			
(100/110V AC)			1	2NC	AOLFN22602DN*	1		

• Specify a color code in place of * in Part No. R (red), G (green), Y (yellow), A (amber), W University a contract of the matched of the matched matched of the match

. Illuminated pushbutttons of 24V AC/DC or below with 2 or 4 contact blocks have a

dummy block.

• See page 12 for other contact configurations and gold-plated silver contacts.

• See page 12 for how to specify units without LED lamps. When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape.

Make sure of correct operation before installation. The operation of illuminated such as the second secon

Terminal screws: M3.5

Integrated terminal cover

LED Illuminated Mushroom (ø40)/Mushroom Pushlock Turn Reset/Mushroom Push Turn Lock

	Shape	Base	Operation	Operating Voltage	Contact	Part No. (Ordering No.)	Color Code	Dimensior Page
	Mushroom (ø40)				1NO-1NC	ALN32211DN ※		
	ALN3 AOLN3			24V AC/DC	2N0	ALN32220DN ※		
	AULINS				2NC	ALN32202DN ※	R	
					1NO-1NC	ALN31611DN ※	G	
			Momentary	100/110V AC	2N0	ALN31620DN ※	Y A	
					2NC	ALN31602DN ※	Ŵ	
					1NO-1NC	ALN32611DN ※	S	
				200/220V AC	2N0	ALN32620DN ※		
n Guide	(24V AC/DC)	DAGO			2NC	ALN32602DN ※		
		BA9S			1NO-1NC	AOLN32211DN ※		
Ratings/ ications				24V AC/DC	2N0	AOLN32220DN ※		
					2NC	AOLN32202DN ※	R	
Ratings					1NO-1NC	AOLN31611DN ※	G	
ications			Maintained	100/110V AC	2N0	AOLN31620DN ※	Y A	
					2NC	AOLN31602DN ※	Ŵ	
egree of otection					1N0-1NC	AOLN32611DN ※	S	
and a set of a set	With tranformer			200/220V AC	2N0	AOLN32620DN ※		
ordering	(100/110V AC)				2NC	AOLN32602DN ※		10
Part No. opment	Mushroom Pushlock Turn Reset				1NO-1NC	AVLN32211DN ※		19
opinient	AVLN3 (*1)			24V AC/DC	2N0	AVLN32220DN ※	1	
					2NC	AVLN32202DN ※	1	
I Series					1NO-1NC	AVLN32202DN %		
a Series		BA9S	_	100/110V AC	2N0	AVLN31620DN ※	R	
) Series ast Zinc					2NC	AVLN31602DN ※	- S	
				50	1NO-1NC	AVLN32611DN ※	1	
				200/220V AC	2N0	AVLN32620DN ※	1	
hbutton	(24V AC/DC)				2NC	AVLN32602DN ※		
	Mushroom Push Turn Lock	1	10		1NO-1NC	AJLN32211DN X		
ninated hbutton	AJLN3			24V AC/DC	2N0	AJLN32220DN X	1	
Selector			····		2NC	AJLN32202DN ※	R	
Switch		Not1	1 1		1NO-1NC	AJLN31611DN ※	G	
Selector hbutton		BA9S	101	100/110V AC	2N0	AJLN31620DN ※	Y	
					2NC	AJLN31602DN ※	A W	
ot Light					1NO-1NC	AJLN32611DN ※	S	
				200/220V AC	2N0	AJLN32620DN ※	1	
	(24V AC/DC)				2NC	AJLN32602DN ※	1	

• Specify a color code in place of * in Part No. R (red), G (green), Y (yellow), A (amber), W (white), S (blue)

• Illuminated pushbuttons have an LED lamp installed.

• Round bezel (metal): Chrome-plated

• See page 12 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.

See page 12 for other contact configurations and gold-plated silver contacts.

• Illuminated pushbutttons of 24V AC/DC or below with 2 or 4 contact blocks have a dummy block.

See page 12 for how to specify units without LED lamps.

Illuminated pushbutton operation

Pushlock Turn Reset

Instructions

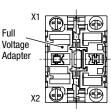
Comparison

Part No.

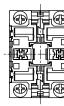
Button is maintained when pressed and is reset when turned clockwise.

Bottom View (for illuminated pushbuttons, selector switches, and pilot lights)

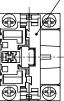
6V, 12V, 24V AC/DC



1 contact block

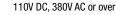


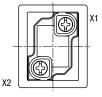
3 contact blocks



2/4 contact blocks

100/110V, 200/220V AC 240V AC or below





DC-DC converter unit Terminal No. X1: positive Terminal No. X2: negative





• See page 52 for wiring.

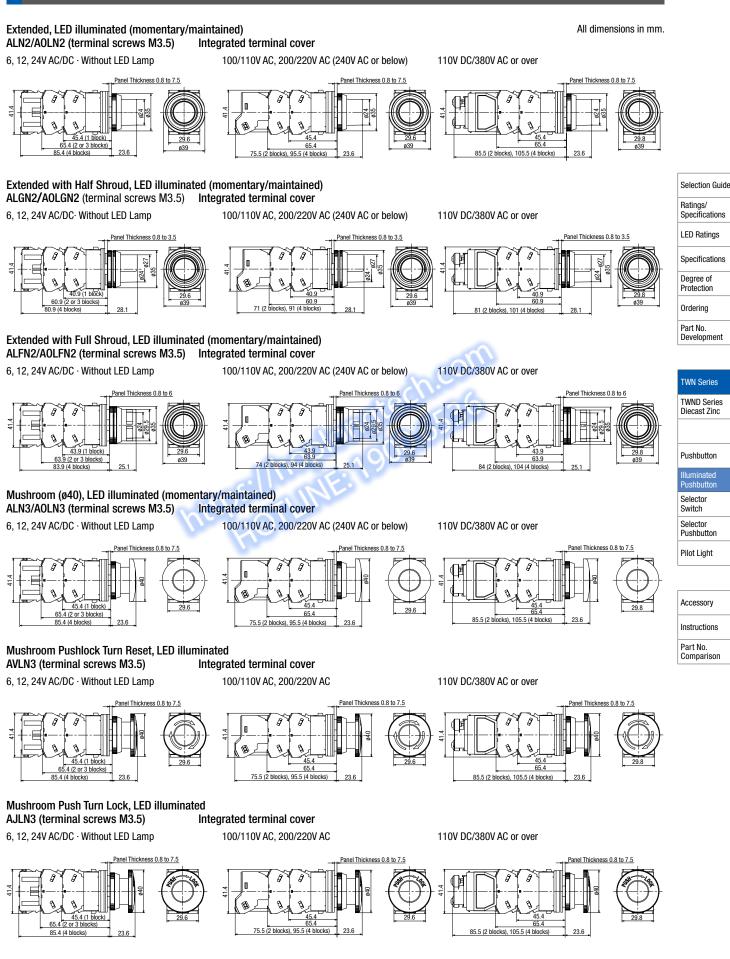
- button switches cannot be guaranteed when a commercially available lamp is used. *1) Pushlock turn reset switches cannot be used as emergency stop switches. When emergency stop switches are required, use XN or HN series emergency stop switches (ISO 13850 and IEC 60947-5-5 compliant).
- Terminal screws: M3.5
- Integrated terminal cover

Push Turn Lock Button is locked when turned clockwise in the depressed position and is reset when turned counterclockwise.

Make sure of correct operation before installation. The operation of illuminated push-

30V AC/DC and 1W maximum, and with the same base and shape.

Dimensions



ASN Selector Switches (Knob Operator)

$ \begin{array}{ c c c c c c c c } \hline Shape & \hline $	t 1
c c c c c c c c c c	1 - 2 ASN2210N
Selection Guide Operator	ASN2210N
Selection Guide Mounting Position Contact 1 2 Mounting Position Contact 1 2 Ratings/ Specifications 90° 1N0 0 N0 • • ASN210N $Mounting Position Contact 1 2 • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • $	
Specifications 90° (10) \bigcirc \square	
Specifications 90° (10) 2 — Dummy Block ASN2100 2002 — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _	
LED hallings (11) ② NC ● ASN211N ASN211N ② NC ● Snerifications 2NO ① NO ● ① NO ● □ □ NO ● □ □ NO ● □ □ NO ● □ □ NO ● □ □ □ □ □ NO ● □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	ASN2211N
(11) ② NC ● ② NC ●	
Specifications 2N0 0 1 N0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	ASN2220N
(20) ② NO ● ASN22ON ASN212ON ② NO ●	
Disglobal ① NO ● Protection 2NO-2NC ② NC ●	
Ordering 2NO-2NC (22) 2 NC ● ASN222N ASN2122N 3 NO ●	ASN2222N
Part No. ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	
Development Carried Deturn	Spring Return
Contact Configuration Maintained From Right Spring Return from Left	Two-way
TWN Series Contact Block Operator Position 1 0 2 1 0 2	1 0 2
TWND Series Diecast Zinc	\bigvee
2N0 ① N0 ● ASN320N ASN3120N ASN3220N	ASN3320N
(20) (2) NU •	A3N3320N
Pushbutton 2NC ① NC ASN302N ASN3102N ASN3202N	ASN3302N
(02) (2) NC	Aditooola
Pushbutton	
Selector 2NO-2NC ② NO ASN322N ASN3122N ASN3222N	ASN3322N
Switch 45° (22) 3 NC PONOZZIV RONOTZZIV RONOTZZIV	
Selector Pushbutton 3-position 4 NC C	
Pilot Light 4NO ② NO ● ACNO 400 ACNO 400 ACNO 400	
And C NO U ASN340N ASN3140N ASN3240N	ASN3340N
(¬¬¬) (¬¬¬) (¬¬¬) (¬¬¬¬) (¬¬¬¬¬¬¬¬¬¬¬¬¬	
Instructions (04) 3 NC ASN304N ASN3104N ASN3204N	ASN3304N
Part No. Comparison	
3S <u>③ NC</u> ● ASN355N-245 — — —	_
Oummy Block	

Knob: Black

• Round bezel (metal): Chrome-plated

• Selector switches with 1 or 3 contact blocks have a dummy block.

• Knob operator can be installed at 45-degree intervals in addition to the positions shown in the above table.

• See page 25 to 26 for other contact configurations.

Turn the operator to each position accurately.

Contact Block Mounting Position

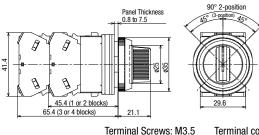
 \bullet Selector switches with \precsim have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.

• See page 12 for gold-plated silver contacts.

• See page 16 for bottom view.

Dimensions

All dimensions in mm.



Terminal cover: integrated



ASN- Selector Switches (Lever Operator)

													Package Quantity: 1
Shape	Lever Opera ASN□L	tor					Ĩ	Ç					
		Contact (Configurati	on			Maintained	Spring Return from Right		Spring	Return	from Le	eft
		Contac	t Block		Operat Positic		1 2	1 . 2	Contact	Block		rator ition	1 - 2
	Contact	Mounting Position	Contact	1	2				Mounting Position	Contact	1	2	
	1N0	0	NO				ACNOL 10N	ACN011 10N	1	NO	•		ACN221 10N
90°	(10)	2	_	Dur	nmy B	llock	ASN2L10N	ASN21L10N	2	—	_	_	ASN22L10N
2-position	1N0-1NC	0	NO				ASN2L11N	ASN21L11N	0	NO			ASN22L11N
	(11)	2	NC	●			AUNZETTN	AGINZ ILI IIV	2	NC		•	AUNZZETTN
	2N0	0	NO		•		ASN2L20N	ASN21L20N	0	NO	•		ASN22L20N
	(20)	2	NO		•		AUNZEZUN	AONZTEZON	2	NO	•		AUNZZEZUN
		0	NO		•				0	NO	•		
	2NO-2NC	2	NC	•		4	ASN2L22N	ASN21L22N	2	NC		•	ASN22L22N
	(22)	3	NO		•				3	NO	•		-
		4	NC	•					4	NC		•	
		Contact (Configurati	on			Maintained	Spring Return from Right	Sprin	ng Return fr	rom Lef	t	Spring Return Two-way
		Contact	t Block		Operat Positic		1 0 2	1 0 2	0)	1,02	2		1,0,2
	Contact	Mounting Position	Contact	1	0	2			26	\sim			
	2N0	1	NO	•	1				2				
	(20)	2	NO			•	ASN3L20N	ASN31L20N		ASN32L20	JN		ASN33L20N
	2NC	0	NO				ASN3L02N	ASN31L02N		ASN32L02	אר		ASN33L02N
	(02)	2	NO			. 1	ASINSLUZIN	ASINGTLUZIN		ASINGZLUZ	211		ASINSSLUZIN
		0	NO	•									
	2NO-2NC	2	NO		5		ASN3L22N	ASN31L22N		ASN32L22	ZN		ASN33L22N
15°	(22)	3	NO				AUIIOLEEN	ADIOTEZZI		RUNULLL			AUNOULLIN
B-position		4	NO										
		0	NO	٠									
	4N0	2	NO			•	ASN3L40N	ASN31L40N		ASN32L40	ON		ASN33L40N
	(40)	3	NO	•	-								
		4	NO										
		0	NO				-						
	4NC	2	NO				ASN3L04N	ASN31L04N		ASN32L04	4N		ASN33L04N
	(04)	3	NO										
		4	NO			<u> </u>							
	~	0	NO NO	•									
	☆ 3S	2	NO NO			•	☆ ASN3L3SN-243	—		_			_
		3	NO	Dum			A3N3L33N-243						
		4	-	Dur	nmy B	IOCK							

Lever: Black

• Round bezel (metal): Chrome-plated

• Selector switches with 1 or 3 contact blocks have a dummy block.

• Knob operator can be installed at 45-degree intervals in addition to the positions shown in the above table.

See page 25 to 26 for other contact configurations.

Turn the operator to each position accurately.

Contact Block Mounting Position



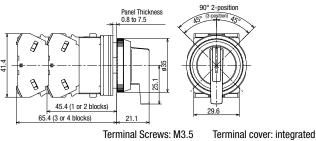
 \bullet Selector switches with \precsim have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.

• See page 12 for gold contact.

• See page 16 for bottom view.

Dimensions

All dimensions in mm.





ASNK Key Selector Switches

														Package Quantity: 1
	Shape	Key Selector ASN⊡K	r (Key No. 0)					Ĩ	ò					
			Contact C	onfiguratio	n			Maintained	Spring Return from Right		Spring	Return	ı from L	eft
		Contact	Contact	Block		perato ositior		1 2	1 2	Contact	Block		rator ition	1 2
Selection Guide		CONTACT	Mounting Position	Contact	1	2				Mounting Position	Contact	1	2	
Ratings/ Specifications	002	1NO (10)	① ②	NO	Dum	• Imy Bl	ock	ASN2K10N	ASN21K10N	① ②	NO	•	_	ASN22K10N
LED Ratings	90° 2-position	1NO-1NC (11)	0	NO NC	•	•		ASN2K11N	ASN21K11N	0	NO NC	•	•	ASN22K11N
Specifications		2N0 (20)	0	NO NO	-	•		ASN2K20N	ASN21K20N	0	NO NO	•	-	ASN22K20N
Degree of Protection			0	NO NO NC	•	•				0	NO NO NC	•	•	
Ordering Part No.		2NO-2NC (22)	3	NO		•		ASN2K22N	ASN21K22N	3	NO	•		ASN22K22N
Development			④ Contact C	NC Configuratio	n 📃			Maintained	Spring Return from Right	3 Spring	NC 9 Return fro	om Lef	● t	Spring Return Two-way
TWN Series			Contact	Block		perato Positior		1 0 2	1 0 - 2		1, 0 2			1 ,
TWND Series Diecast Zinc		Contact	Mounting Position	Contact	1	0	2	\checkmark	xeV n	6				\checkmark
		2N0 (20)	① ②	NO NO	•		•	ASN3K20N	ASN31K20N		ASN32K20	N		ASN33K20N
Pushbutton		2NC (02)	① ②	NC NC				ASN3K02N	ASN31K02N		ASN32K02	N		ASN33K02N
Illuminated Pushbutton Selector		2NO-2NC	0	NO NO		;.\		NE.						
Switch Selector	45°	(22)	3 ④	NC NC		5	Š.	ASN3K22N	ASN31K22N		ASN32K22	N		ASN33K22N
Pushbutton Pilot Light	3-position	4N0	0	NO NO	•		•							
		(40)	3 ④	NO NO NO	•		•	ASN3K40N	ASN31K40N		ASN32K40	N		ASN33K40N
Accessory		410	0	NC										
Instructions		4NC (04)	2 3	NC NC				ASN3K04N	ASN31K04N		ASN32K04	N		ASN33K04N
Part No. Comparison			(4) (1)	NC NO	•									
		s S	2 3	NO NC		•	•	☆ ASN3K3SN-243	—		—			-
			4		Dum	imy Bl	ock							

• Cylinder: Chrome-plated

• Round bezel (metal): Chrome-plated

• Key selector switches with 1 or 3 contact blocks have a dummy block.

• See page 25 to 26 for other contact configurations.

• On spring-returned types, the key can be released only from the maintained position. On maintained types, the key can be released from every position. See page 12 for specifying key retained positions.

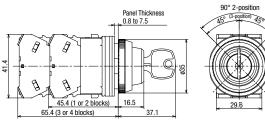
Contact Block Mounting Position



• Key selector switch is supplied with two standard keys.

- (1) Insert the key completely before turning the key, otherwise failure may result.
- (1) insert the key completely before turning the key, otherwise failure may result.
 (2) Turn the operator to each position accurately.
 Different key number is available upon request. Contact IDEC.
 Selector switches with ☆ have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
 See page 12 for gold-plated silver contacts.
 See page 16 for bottom view.

Dimensions



Terminal Screws: M3.5

Terminal cover: integrated

All dimensions in mm.

IDEC

22

ASN- K Key Selector Switches

								-					Package Quantity: 1
Shape	Key Selector ASN⊡K	[•] (Key No. 0)					Ĩ	C					
		Contact C	configuratio	n			Maintained	Spring Return from Right		Spring	g Retur	n from	Left
	Original	Contact	Block) perat Positic		1 2	1 <u>2</u>	Contac	Block		rator ition	1, 2
	Contact	Mounting Position	Contact	1	2				Mounting Position	Contact	1	2	
	1NO (10)	0	NO	Dur	nmy E		ASN2K10N- N024401	ASN21K10N- N024401	① ②	NO	•		ASN22K10N- N024401
90° 2-position	1NO-1NC	0	NO	501			ASN2K11N-	ASN21K11N-	0	NO	•		ASN22K11N-
	(11)	2	NC	•		1	N024401	N024401	2	NC		•	N024401
	2N0	0	NO				ASN2K20N-	ASN21K20N-	0	NO	•		ASN22K20N-
	(20)	2	NO		•		N024401	N024401	2	NO	•		N024401
		0	NO		•	-			0	NO	•		
	2NO-2NC	2	NC	•	-	-	ASN2K22N-	ASN21K22N-	2	NC		•	ASN22K22N-
	(22)	3	NO		•	-	N024401	N024401	3	NO	•		N024401
		4	NC	•				Spring Return	4	NC			Spring Return
		Contact C	Configuratio		_		Maintained	from Right	Sprin	g Return fr	om Lef	t	Two-way
	Contact	Contact	Block		Operat Positio		1 0 2	1 0 2					
	oontaot	Mounting Position	Contact	1	0	2			20	\bigvee			\bigvee
	2N0	0	NO	•			ASN3K20N-	ASN31K20N-		ASN32K20	N-		ASN33K20N-
	(20)	2	NO			•	N024401	N024401		NO24401			N024401
	2NC	0	NC			P	ASN3K02N-	ASN31K02N-		ASN32K02	N-		ASN33K02N-
	(02)	2	NC		P		N024401	N024401		N024401			N024401
	2NO-2NC	① ②	NO NO		K	•	ASN3K22N-	ACN24K00N		ACN20K00	NI		ACNOOKOON
	(22)	3	NC			5	N024401	ASN31K22N- N024401		ASN32K22 N024401	14-		ASN33K22N- N024401
45° 3-position	(,	4	NC										
o position		0	NO	٠		`							
	4N0	2	NO			٠	ASN3K40N-	ASN31K40N-		ASN32K40	N-		ASN33K40N-
	(40)	3	NO	•			N024401	N024401		NO24401			N024401
		4	NO			•							
		0	NC			P							
	4NC	2	NC				ASN3K04N-	ASN31K04N-		ASN32K04	N-		ASN33K04N-
	(04)	3	NC		L		N024401	N024401		NO24401			N024401
		(4)	NC										
		① ②	NO NO	•		•	-						
	☆ 3S	3	NC			-	ASN3K3SN-	—		—			
		 		Dur	nmy E		243-N024401						

• Cylinder: Chrome-plated

• Round bezel (metal): Chrome-plated

. Key selector switches with 1 or 3 contact blocks have a dummy block.

• See page 25 to 26 for other contact configurations.

• On spring-returned types, the key can be released only from the maintained position. On maintained types, the key can be released from every position. See page 12 for specifying key retained positions.

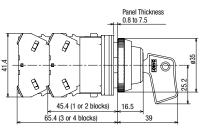
Contact Block Mounting Position



• Key selector switch is supplied with two standard keys.

- (1) Insert the key completely before turning the key, otherwise failure may result. (2) Turn the operator to each position accurately.
- · Different key number is available upon request. Contact IDEC.
- Selector switches with \precsim have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
- See page 12 for gold-plated silver contacts.
 See page 16 for bottom view.

Dimensions



All dimensions in mm.



Terminal Screws: M3.5 Terminal cover: integrated

> 23 IDEC

ries Series

ASLN Illuminated Selector Switches (LED)

															Package Q	uantity: 1
	Shape	Illuminate ASLN	ed Selector	Switches	s (BA	19S E	Base)								
									(24V AC/DC)							
			Contact Co	onfigurati	on				Maintained	Spring Return from Right		Spring	g Reti	ırn fro	m Left	
		Orinterat	Contact	Block		oerat ositio		Rated Voltage	1 2	1 2	Contact	Block	Oper Posi	rator ition	1 + 2	Color Code
Selection Guide		Contact	Mounting Position	Contact	1	2		Ŭ			Mounting Position	Contact	1	2		
Selection Guide	5		1)	NO				24V AC/DC	ASLN22211DN*	ASLN212211DN*	0	NO	•		ASLN222211DN*	
Ratings/	90° 2-position	1NO-1NC	2	NC			1	100/110V AC	ASLN21611DN*	ASLN211611DN*	0	NC		•	ASLN221611DN*	1
Specifications	P d-2	(11)					1	200/220V AC	ASLN22611DN*	ASLN212611DN*				1	ASLN222611DN*	R
LED Ratings	8		0	NO				24V AC/DC	ASLN22220DN*	ASLN212220DN*	0	NO			ASLN222220DN*	G
	6	2N0	2	NO				100/110V AC	ASLN21620DN*	ASLN211620DN*	2	NO	•		ASLN221620DN*	Y
Specifications		(20)		1			1	200/220V AC	ASLN22620DN*	ASLN212620DN*		-			ASLN222620DN*	A
Desire			1)	NO				24V AC/DC	ASLN22222DN*	ASLN212222DN*	0	NO	•		ASLN222222DN*	W
Degree of Protection		2NO-2NC	Q	NC		-	1	100/110V AC	ASLN21622DN*	ASLN211622DN*	2	NC		•	ASLN221622DN*	- S PW
1101001011		(22)	3	NO	-	•		200/220V AC	ASLN22622DN*	ASLN212622DN*	3	NO	•		ASLN222622DN*	FW
Ordering			(4)	NC		-	1	_	_	_	(4)	NC		•	_	
Part No.			0	<i>c v</i>					Maintainad	Spring Return				- 4	Spring Return	
Development			Contact Co	onfigurati	on				Maintained	from Right	Spring	Return fr	OM L	επ	Two-Way	
Development			Contact Co		0p	perat		Rated Voltage		from Right	Spring	Return fr		еп	Two-Way	Color Code
Development TWN Series		Contact		Block	Op Po	oerat ositic 0		Rated Voltage			Spring			еπ		Color Code
TWN Series			Contact Mounting	t Block Contact	Op Po	ositic	on	Voltage		from Right	on		2		Two-Way	
		2N0	Contact Mounting Position	Block	Op Po 1	ositic	on		1 0 2	from Right $1 0 2$	ASI		2 20DN*	:	Two-Way	
TWN Series			Contact Mounting Position	Block Contact	Op Po 1	ositic	on 2	Voltage 24V AC/DC	1 0 2 ASLN32220DN*	from Right	ASI	1 0 2 LN32222	2 0DN* 0DN*	:	Two-Way	
TWN Series TWND Series		2N0 (20)	Contact Mounting Position	Block Contact	Op Po 1	ositic	on 2	Voltage 24V AC/DC 100/110V AC 200/220V AC	1 0 2 ASLN32220DN* ASLN31620DN*	from Right 1 0 - 2 ASLN312220DN* ASLN311620DN* ASLN312620DN*	ASI ASI ASI	1 0 2 LN32222 LN32162	2 0DN* 0DN* 0DN*	:	Two-Way 1 0 2 ASLN332220DN* ASLN331620DN* ASLN332620DN*	
TWN Series TWND Series Diecast Zinc	ion	2N0 (20) 2NC	Contact Mounting Position ① ②	t Block Contact NO NO	Op Po 1	ositic	on 2	Voltage 24V AC/DC 100/110V AC	1 0 2 ASLN32220DN* ASLN31620DN* ASLN32620DN*	from Right 1 0 - 2 ASLN312220DN* ASLN311620DN*	ASI ASI ASI	1 • 0 2 LN32222 LN32162 LN32262	2 20DN* 20DN* 20DN* 2DN*	2 2 2	Two-Way 1 • 0 • 2 ASLN332220DN* ASLN331620DN*	
TWN Series TWND Series Diecast Zinc Pushbutton	osition	2N0 (20)	Contact Mounting Position ① ② ①	t Block Contact NO NO	Op Po 1	ositic	on 2	Voltage 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC	1 0 2 ASLN32220DN* ASLN31620DN* ASLN32620DN* ASLN32202DN*	from Right 1 0 - 2 ASLN312220DN* ASLN311620DN* ASLN312620DN* ASLN312202DN*	ASI ASI ASI ASI ASI	1 0 2 LN32222 LN32162 LN32262 LN32220	2000 2000 2000 2000 2000 2000 2000	: : : :	Two-Way 1 0 2 ASLN332220DN* ASLN331620DN* ASLN332620DN* ASLN332202DN*	Code
TWN Series TWND Series Diecast Zinc Pushbutton Illuminated	3-position	2N0 (20) 2NC	Contact Mounting Position ① ② ① ②	t Block Contact NO NO	Op Po 1	ositic	on 2	Voltage 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC	1 0 2 ASLN32220DN* ASLN31620DN* ASLN32620DN* ASLN32202DN* ASLN31602DN*	from Right 1 0 - 2 ASLN312220DN* ASLN311620DN* ASLN312620DN* ASLN31202DN* ASLN311602DN*	ASI ASI ASI ASI ASI ASI	1,02 LN32222 LN32162 LN32262 LN32262 LN32260 LN32160	2 0DN* 0DN* 0DN* 02DN* 02DN* 02DN*	2 2 2 2 2	Two-Way 1 0 2 ASLN332220DN* ASLN331620DN* ASLN332620DN* ASLN332620DN* ASLN332620DN*	Code
TWN Series TWND Series Diecast Zinc Pushbutton Illuminated Pushbutton	5° 3-position	2N0 (20) 2NC	Contact Mounting Position ① ② ① ② ① ① ②	Block Contact NO NO NC NC	0p Pc 1	ositic	on 2	Voltage 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC	1 0 2 ASLN32220DN* ASLN31620DN* ASLN32620DN* ASLN32602DN* ASLN31602DN*	from Right 1 0 2 ASLN312220DN* ASLN311620DN* ASLN312620DN* ASLN31202DN* ASLN312002DN* ASLN312602DN*	ASI ASI ASI ASI ASI ASI ASI	1 0 2 LN32222 LN32162 LN32262 LN32260 LN32160 LN32260	20DN* 20DN* 20DN* 2DN* 2DN* 2DN* 2DN*	2	Two-Way 1 0 2 ASLN332220DN* ASLN331620DN* ASLN332620DN* ASLN332602DN* ASLN331602DN* ASLN332602DN*	Code
TWN Series TWND Series Diecast Zinc Pushbutton Illuminated Pushbutton Selector	45° 3-position	2NO (20) 2NC (02)	Contact Mounting Position ① ② ① ②	Block Contact NO NO NC NC NC	0p Pc 1	ositic	on 2	Voltage 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC	1 0 2 ASLN32220DN* ASLN31620DN* ASLN32620DN* ASLN32602DN* ASLN32602DN* ASLN32602DN* ASLN32222DN* ASLN32222DN*	from Right 1 0 2 ASLN312220DN* ASLN311620DN* ASLN312620DN* ASLN312620DN* ASLN312602DN* ASLN312602DN* ASLN312602DN* ASLN312602DN* ASLN312602DN*	ASI ASI ASI ASI ASI ASI ASI	1 0 2 LN32222 LN32162 LN32262 LN32260 LN32260 LN32260 LN32222 LN32162	2 0DN* 0DN* 2DN* 2DN* 2DN* 2DN* 2DN* 2DN*	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Two-Way 1 0 2 ASLN332220DN* ASLN331620DN* ASLN332620DN* ASLN332602DN* ASLN331602DN* ASLN332602DN* ASLN332602DN* ASLN332602DN*	Code R G Y
TWN Series TWND Series Diecast Zinc Pushbutton Illuminated Pushbutton Selector Switch	45° 3-position	2NO (20) 2NC (02) 2NO-2NC	Contact Mounting Position ② ① ② ③ ③ ③ ③ ④	t Block Contact NO NO NC NC NO NO	0p Pc 1		on 2	Voltage 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC	1 0 2 ASLN32220DN* ASLN31620DN* ASLN32620DN* ASLN32620DN* ASLN32602DN* ASLN32602DN* ASLN32602DN*	from Right 1 0 2 ASLN312220DN* ASLN311620DN* ASLN312620DN* ASLN312620DN* ASLN312602DN* ASLN312602DN* ASLN312602DN*	ASI ASI ASI ASI ASI ASI ASI	1 0 2 LN32222 LN32162 LN32262 LN32260 LN32260 LN32260 LN32222	2 0DN* 0DN* 2DN* 2DN* 2DN* 2DN* 2DN* 2DN*	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Two-Way 1 0 2 ASLN332220DN* ASLN331620DN* ASLN332620DN* ASLN332602DN* ASLN331602DN* ASLN332602DN* ASLN332602DN*	Code R G Y A
TWN Series TWND Series Diecast Zinc Pushbutton Illuminated Pushbutton Selector	45° 3-position	2NO (20) 2NC (02) 2NO-2NC	Contact Mounting Position ② ① ② ③ ① ② ③ ③	t Block Contact NO NO NC NC NO NO NO	0p Pc 1		on 2	Voltage 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC	1 0 2 ASLN32220DN* ASLN31620DN* ASLN32620DN* ASLN32602DN* ASLN32602DN* ASLN32602DN* ASLN32222DN* ASLN32222DN*	from Right 1 0 2 ASLN312220DN* ASLN311620DN* ASLN312620DN* ASLN312620DN* ASLN312602DN* ASLN312602DN* ASLN312602DN* ASLN312602DN* ASLN312602DN*	ASI ASI ASI ASI ASI ASI ASI ASI	1 0 2 LN32222 LN32162 LN32262 LN32260 LN32260 LN32260 LN32222 LN32162	2 0DN* 0DN* 2DN* 2DN* 2DN* 2DN* 2DN* 2DN* 2DN*		Two-Way 1 0 2 ASLN332220DN* ASLN331620DN* ASLN332620DN* ASLN332602DN* ASLN331602DN* ASLN332602DN* ASLN332602DN* ASLN332602DN*	Code R G Y A W
TWN Series TWND Series Diecast Zinc Pushbutton Illuminated Pushbutton Selector Switch Selector Pushbutton	45° 3-position	2NO (20) 2NC (02) 2NO-2NC	Contact Mounting Position ② ① ② ③ ③ ③ ③ ④	Block Contact NO NO NC NC NO NO NC NC	0p Pc 1		on 2	Voltage 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 24V AC/DC	1 0 2 ASLN32220DN* ASLN31620DN* ASLN32620DN* ASLN32602DN* ASLN32602DN* ASLN32602DN* ASLN32602DN* ASLN32622DN* ASLN31622DN*	from Right 1 0 - 2 ASLN312220DN* ASLN311620DN* ASLN312620DN* ASLN312620DN* ASLN312602DN* ASLN312602DN* ASLN312602DN* ASLN312622DN* ASLN312622DN*	ASI ASI ASI ASI ASI ASI ASI ASI	1 0 2 LN32222 LN32162 LN32262 LN32260 LN32260 LN32220 LN32260 LN32262 LN32262 LN32262	2 000N* 000N* 22DN* 22DN* 22DN* 22DN* 22DN* 22DN*		Two-Way 1 0 2 ASLN332220DN* ASLN331620DN* ASLN332620DN* ASLN332620DN* ASLN332602DN* ASLN332602DN* ASLN332602DN* ASLN332622DN* ASLN332622DN* ASLN332622DN*	Code R G Y A W S
TWN Series TWND Series Diecast Zinc Pushbutton Illuminated Pushbutton Selector Switch	45° 3-position	2NO (20) 2NC (02) 2NO-2NC (22)	Contact Mounting Position () () () () () () () () () () () () ()	Block Contact NO NO NC NC NO NO NC NC NO	0p Pc 1		on 2 •	Voltage 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 200/220V AC	1 0 2 ASLN32220DN* ASLN31620DN* ASLN32620DN* ASLN32602DN* ASLN32602DN* ASLN32602DN* ASLN32602DN* ASLN32622DN* ASLN32622DN* ASLN32640DN*	from Right 1 0 2 ASLN312220DN* ASLN311620DN* ASLN312620DN* ASLN312620DN* ASLN31202DN* ASLN31202DN* ASLN311622DN* ASLN312622DN* ASLN312240DN* ASLN311640DN*	ASI ASI ASI ASI ASI ASI ASI ASI ASI ASI	1 • 0 2 LN32222 LN32162 LN32262 LN32262 LN32260 LN32262 LN32262 LN32262 LN32262 LN32262 LN32262 LN32264 LN32224 LN32264	2 000N* 000N* 220N* 220N* 220N* 220N* 220N* 220N*		Two-Way 1 0 2 ASLN332220DN* ASLN331620DN* ASLN332620DN* ASLN33202DN* ASLN33202DN* ASLN33202DN* ASLN332622DN* ASLN332622DN* ASLN332640DN*	Code R G Y A W
TWN Series TWND Series Diecast Zinc Pushbutton Illuminated Pushbutton Selector Switch Selector Pushbutton	45° 3-position	2NO (20) 2NC (02) 2NO-2NC (22) 4NO	Contact Mounting Position ② ③ ③ ③ ③ ③ ④ ① ② ③ ③ ④ ④ ① ②	Block Contact NO NO NC NO NO NC NC NC NC NO NO NC	Орр Рс 1 •		on 2 •	Voltage 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC	1 0 2 ASLN32220DN* ASLN31620DN* ASLN32620DN* ASLN32602DN* ASLN32602DN* ASLN32602DN* ASLN32602DN* ASLN3222DN* ASLN32622DN* ASLN32220N*	from Right 1 0 2 ASLN312220DN* ASLN311620DN* ASLN312620DN* ASLN312620DN* ASLN312602DN* ASLN312222DN* ASLN311622DN* ASLN312622DN* ASLN312240DN*	ASI ASI ASI ASI ASI ASI ASI ASI ASI ASI	1 • 0 2 LN32222 LN32162 LN32262 LN32260 LN32260 LN32260 LN32262 LN32162 LN32262 LN32262 LN32262	2 000N* 000N* 220N* 220N* 220N* 220N* 220N* 220N*		Two-Way 1 0 2 ASLN332220DN* ASLN331620DN* ASLN332620DN* ASLN332602DN* ASLN332602DN* ASLN332622DN* ASLN332622DN* ASLN332622DN* ASLN332622DN*	Code R G Y A W S
TWN Series TWND Series Diecast Zinc Pushbutton Illuminated Pushbutton Selector Switch Selector Pushbutton	45° 3-position	2NO (20) 2NC (02) 2NO-2NC (22) 4NO	Contact Mounting Position ② ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③	Block Contact NO NO NC NO NO NC NC NC NO	Орр Рс 1 •		on 2 • •	Voltage 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 	1 0 2 ASLN32220DN* ASLN31620DN* ASLN32620DN* ASLN32602DN* ASLN32602DN* ASLN32602DN* ASLN32602DN* ASLN32622DN* ASLN32622DN* ASLN32640DN* ASLN32640DN*	from Right 1 0 2 ASLN312220DN* ASLN311620DN* ASLN312620DN* ASLN312602DN* ASLN312020DN* ASLN312020DN* ASLN312020DN* ASLN312622DN* ASLN312640DN* ASLN312640DN* ASLN312640DN*	ASI ASI ASI ASI ASI ASI ASI ASI ASI	1 • 0 2 LN32222 LN32162 LN32262 LN32260 LN32260 LN32262 LN32162 LN32262 LN32264 LN32264 LN32264 LN32264	2 00DN* 00DN* 22DN* 22DN* 22DN* 22DN* 22DN* 22DN* 00DN* 00DN*		Two-Way 1 0 2 ASLN332220DN* ASLN331620DN* ASLN332620DN* ASLN332602DN* ASLN332602DN* ASLN332622DN* ASLN332622DN* ASLN332640DN* ASLN332640DN* ASLN332640DN*	Code R G Y A W S
TWN Series TWND Series Diecast Zinc Pushbutton Illuminated Pushbutton Selector Switch Selector Pushbutton Pilot Light	45° 3-position	2NO (20) 2NC (02) 2NO-2NC (22) 4NO (40)	Contact Mounting Position ② ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ④ ④ ① ② ③ ③ ④ ④ ①	Block Contact NO NO NC NO	Орр Рс 1 •		on 2 • •	Voltage 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC	1 0 2 ASLN32220DN* ASLN31620DN* ASLN32620DN* ASLN32602DN* ASLN32602DN* ASLN32602DN* ASLN32602DN* ASLN32622DN* ASLN32622DN* ASLN32640DN*	from Right 1 0 2 ASLN312220DN* ASLN311620DN* ASLN312620DN* ASLN312602DN* ASLN312602DN* ASLN312622DN* ASLN312622DN* ASLN312640DN* ASLN312640DN* ASLN312640DN* ASLN312204DN*	ASI ASI ASI ASI ASI ASI ASI ASI ASI ASI	1 • 0 2 LN32222 LN32162 LN32262 LN32262 LN32260 LN32262 LN32262 LN32262 LN32262 LN32262 LN32262 LN32264 LN32224 LN32264	2 000N* 000N* 20N* 22DN* 22DN* 22DN* 22DN* 22DN* 00DN* 00DN* 00DN*		Two-Way 1 0 2 ASLN332220DN* ASLN331620DN* ASLN332620DN* ASLN332602DN* ASLN332602DN* ASLN332622DN* ASLN332622DN* ASLN332640DN* ASLN332640DN* ASLN332640DN* ASLN332204DN*	Code R G Y A W S
TWN Series TWND Series Diecast Zinc Pushbutton Illuminated Pushbutton Selector Switch Selector Pushbutton	45° 3-position	2NO (20) 2NC (02) 2NO-2NC (22) 4NO	Contact Mounting Position ② ③ ③ ③ ④ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③	Block Contact NO NO NC NC NC NC NC NC NC NC NC NO NO NO NO NO NO NO NO NO NC	Орр Рс 1 •		on 2 • •	Voltage 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 	1 0 2 ASLN32220DN* ASLN31620DN* ASLN32620DN* ASLN32620DN* ASLN32602DN* ASLN32602DN* ASLN32602DN* ASLN32622DN* ASLN32622DN* ASLN32640DN* ASLN32640DN* ASLN32204DN*	from Right 1 0 2 ASLN312220DN* ASLN311620DN* ASLN312620DN* ASLN312602DN* ASLN312020DN* ASLN312020DN* ASLN312020DN* ASLN312622DN* ASLN312640DN* ASLN312640DN* ASLN312640DN*	ASI ASI ASI ASI ASI ASI ASI ASI ASI ASI	1 • 0 2 LN32222 LN32162 LN32262 LN32260 LN32260 LN32260 LN32262 LN32162 LN32264 LN32264 LN32264 LN32264 LN32264	2 00DN* 00DN* 22DN* 22DN* 22DN* 22DN* 22DN* 22DN* 22DN* 00DN* 00DN* 00DN* 44DN*		Two-Way 1 0 2 ASLN332220DN* ASLN331620DN* ASLN332620DN* ASLN332602DN* ASLN332602DN* ASLN332622DN* ASLN332622DN* ASLN332640DN* ASLN332640DN* ASLN332640DN*	Code R G Y A W S
TWN Series TWND Series Diecast Zinc Pushbutton Illuminated Pushbutton Selector Switch Selector Pushbutton Pilot Light	45° 3-position	2NO (20) 2NC (02) 2NO-2NC (22) 4NO (40) 4NC	Contact Mounting Position () () () () () () () () () () () () ()	Block Contact NO NO NC NC NC NC NC NC NC NC NO NO NO NO NO NO NC	Орр Рс 1 •		on 2 • •	Voltage 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC	1 0 2 ASLN32220DN* ASLN31620DN* ASLN32620DN* ASLN32620DN* ASLN32602DN* ASLN32602DN* ASLN32602DN* ASLN32622DN* ASLN32622DN* ASLN32640DN* ASLN32640DN* ASLN32204DN* ASLN32640DN*	from Right 1 0 2 ASLN312220DN* ASLN311620DN* ASLN311620DN* ASLN312202DN* ASLN312202DN* ASLN312602DN* ASLN312622DN* ASLN312622DN* ASLN312640DN* ASLN312640DN* ASLN312204DN* ASLN312204DN* ASLN312640DN* ASLN312204DN* ASLN31204DN* ASLN31204DN	ASI ASI ASI ASI ASI ASI ASI ASI ASI ASI	1 0 2 LN32222 LN32162 LN32262 LN32260 LN32260 LN32260 LN32262 LN32162 LN32264 LN32264 LN32264 LN32264 LN32264 LN32264	2 00DN* 00DN* 22DN* 22DN* 22DN* 22DN* 22DN* 22DN* 22DN* 00DN* 00DN* 00DN* 44DN*		Two-Way 1 0 2 ASLN332220DN* ASLN331620DN* ASLN332620DN* ASLN332602DN* ASLN332602DN* ASLN332602DN* ASLN332622DN* ASLN332640DN* ASLN332640DN* ASLN332204DN* ASLN332204DN* ASLN332204DN* ASLN332204DN* ASLN332204DN*	Code R G Y A W S

Specify a color code in place of * in Part No.

R (red), G (green), Y (yellow), A (amber), W (white), S (blue), PW (pure white)

• Illuminated selector switches have an LED lamp installed.

Round bezel (metal): chrome-plated

Comparison

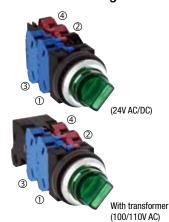
Part No.

See page 13 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.
 Illuminated selector switches of 24V AC/DC or below with 2 or 4 contact blocks have a

dummy block.

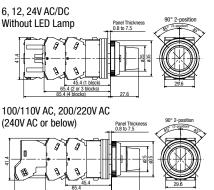
• See page 25 to 26 other contact configurations.

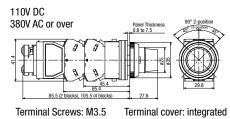
Contact Block Mounting Position



Dimensions

75.5 (2 blocks), 95.5 (4 blo





• See page 13 for how to specify units without LED lamps. When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape. Make sure of correct operation before installation. The operation of illuminated pushbutton switches cannot be guaranteed when a commercially available lamp is used.

• Turn the operator to each position accurately.

• See page 13 for gold-plated silver contacts.

• See page 18 for bottom view.

All dimensions in mm.

90° 2-position

					Op	perator Opera	tion and Circ	uit	
				Maint	ained		Return		Return
		Cont	act	1	2	from	Right	from	Left 2
		Bloo	ck		/		>-	│	/
Contact Configuration	Circuit Code			Knob Lever	Кеу	Knob Lever	Кеу	Knob Lever	Кеу
				Operator	Position	Operator	Position	Operator	Position
		Mounting Position	Contact	1	2	1	2	1	2
		POSILION			Ø	l 🔇		l 🛞	Ø
10	Not	1	NO		۲			•	
10	required	2		Dumm	y Block	Dumm	y Block	Dumm	y Block
01	Not	0	NC	•		•			●
01	required	2	—	Dumm	y Block	Dumm	y Block	Dumm	y Block
	₹ Z	1	EM						\nearrow
2R	118	2	LB						
28	자	1	EM						
	168	2	LB						

						0p	erator O	peration	and Circ	uit		
		Cont Bloo		N	laintaine			ring Retu rom Righ			ring Retu rom Lef	t
Contact Configuration	Circuit Code			Knob Lever	Key	Illumi- nated	Knob Lever	Кеу	Illumi- nated	Knob Lever	Кеу	lllumi- nated
				Oper	ator Pos	sition	Oper	ator Pos	ition	Oper	ator Pos	ition
		Mounting Position	Contact	1		2	-		2			2 Ø
11	Not	1	NO		$I \Box$	•			•	•		
	required	2	NC									•
20	Not	0	NO	Χ.	2	•			•	•		
20	required	2	NO			•			•	•		
02	Not	0	NC	•			•					•
	required	2	NC	•								•
		0	NO			•			•	•		
22	Not	2	NC	•			•					•
	required	3	NO			•			•	•		
		4	NC	•						ļ		•
		0	NC	•			•					•
31	107	0	NO			•			•	•		
		3	NO			•			•	•		
		4	NO			•			•	•		
		0	NO			•			•	•		
40	Not	2	NO			•			•			
	required	3	NO			•			•	•		
		4	NO			•			•	•		

Selection Guide

Ratings/ Specifications

LED Ratings

Specifications

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Degree of Protection

Ordering

Part No. Development

TWN Series TWND Series Diecast Zinc

Pushbutton Illuminated Pushbutton Selector Switch

Selector Pushbutton

Pilot Light

Accessory Instructions Part No. Comparison

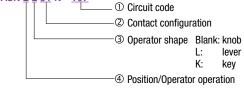
• Selector switches with 🖄 have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.

Contact Block Mounting Position



Part No. Development

ASN <u>2 L 31</u> N - <u>107</u>



2: 2-position, maintained 21: 2-position, spring return from right

22: 2-position, spring return from left

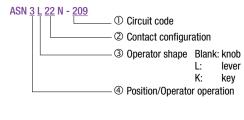
45° 3-position

						-					() perato	or Opera	tion and	d Cire	cuit							
	Contact Configuration	Circuit Code	Cont Bloo		Ope	rator Pos	sition	N 1	laintain 0	ed 2	Spr	ing Re om Rig	turn ht	Spr fi	ing F rom l	leturn		ring Re Two-wa	ay				
			Mounting Position	Contact	1	0	2 Ø	Knob/ Lever	Key	Illumi- nated	Knob/ Lever	Key	Illumi- nated	Knob/ Lever	Key	, Illum nate		Key	Illumi- nated				
		202	0	NO	•			-				√			1			√					
			2 1	NC NC													-						
Selection Guide	11	203	Q	NO				-	\checkmark						\checkmark								
Ratings/		000	0	NC		•			1						,								
Specifications		303	2	NO					V			V			V								
LED Ratings	20	Not	1	NO	•				\checkmark			\checkmark											
Cresifications	20	required	2	NO			•		V			V			v			v					
Specifications	02	Not	0	NC					\checkmark			\checkmark											
Degree of Protection		required	2	NC				├	•						<u> </u>			•					
		Net	0	NO NO	•		•	-						,									
Ordering		Not required	2 3	NC					\checkmark									\checkmark					
Part No. Development		roquirou	4	NC				-															
Development			0	NO	•																		
			2	NC					,														
TWN Series		209	3	NC					V			\checkmark		_		- -							
			4	NO			•	1															
TWND Series Diecast Zinc			1	NC					X (2		20											
	22	210	2	NO			•	5			5												
		210	3	NC					V		01	V			\checkmark			v					
Pushbutton			4	NO						<u>yv</u> :													
Illuminated			0	NC																			
Pushbutton		310	2 3	NO NC	C							_			_			_					
Selector			() ()	NO																			
Switch			0	NO	•		•																
Selector Pushbutton			Q	NO			•																
Pilot Light		311	3	NC		•	-	-	\checkmark						V			\checkmark					
T HOT LIGHT			4	NC				1															
			0	NO	•																		
•	40	Not	2	NO			•		\checkmark			\checkmark											
Accessory		required	3	NO	•				v			v			v			v					
Instructions			4	NO			•																
Part No.			0	NC				-															
Comparison	04	Not required	2	NC				-	\checkmark														
		requireu	3	NC NC				-															
			(4) (1)	NO				<u> </u>															
		☆	 	NO			•	1															
	3S	243	3	NC		•	-	1	/	-		—						_					
			4		Dı	ummy Blo	ock	1															

• Selector switches with 🖄 have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same. • On selector switches with 🖄, the contact blocks may overlap each other while turning the ring or lever operator.

Contact Block Mounting Position

Part No. Development



3: 3-position, maintained

31: 3-position, spring return from right

32: 3-position, spring return from left 33: 3-position, spring return two-way

ASBN2 Selector Pushbuttons

Shape	Contact Configuration	Circuit Code		tact ock	Left	(Position	Right	Button Color Code	Ring Operator	
			Mounting Position	Contact	Normal	Push Push	button Normal	Push		Part No. (Ordering No.)	
Ring Operator (90°2-position)			0	NO	Horman	•	Horman	•			1
ASBN2		A03	2	NC	•					ASBN211N-A03*	
	11	\$	0	NC	•				В	\$	
	(1NO-1NC)	K04	2	EM		•			G	ASBN211N-K04*	
		G03	0	NO		•		Blocked	R Y	ASBN211N-G03*	Selection Guide
			2	NC	•		•		ř		Ratings/
	20	D01	0	NO		•				ASBN220N-D01*	Specifications
	(2NO)		2	NO				•			LED Ratings
1			0	NO NC	•	•		•			Cresifications
		A08	2 3	NC NO	•	•		•		ASBN222N-A08*	Specifications
			(3) (4)	NC	•	•		•			Degree of Protection
			• •	NO	•	•		•	-		1
		☆	2	NO				•		Å	Ordering
		й С10	3	NC	•					ASBN222N-C10*	Part No. Development
			4	NC							Development
			0	NO		٠		\sum			i
		D10	2	NO				•		ASBN222N-D10*	TWN Series
		DIU	3	NC	•	$\langle O \rangle$				A2DIN775N-D10*	TWND Series
			4	NC			•				Diecast Zinc
			0	NO	5	•	5		В		
	22	☆	2	NO		\mathbf{O}			G	\$	
	(2NO-2NC)	E10	3	NC	O				R Y	ASBN222N-E10*	Pushbutton
			4	NC							Illuminated Pushbutton
		5.	0	NO NO		•		•			Selector
	17	☆ F10	2 3	NC		•	•			☆ ASBN222N-F10∗	Switches
	1 V V V	110	(3) (4)	NC	•		•			ASDNZZZN-FTU*	Selector Pushbutton
			0	NO	•	•			-		
			2	NO		•					Pilot Light
		G10	3	NC	•		•	Blocked		ASBN222N-G10*	
			4	NC	•		•				
			0	NC	•				F		Accessory
		$\stackrel{\sim}{\sim}$	2	NC	•					\$	Instructions
		K15	3	EM		•				ASBN222N-K15*	Part No.
• Chasify a color and in place of th			4	EM		•					Comparison

• Specify a color code in place of * in Part No.

B (black), G (green), R (red), Y (yellow)

• Bezel (metal): Chrome-plated

Circuit code G: The pushbutton does not operate when the ring operator is turned to the right position.
Circuit codes E and F: The right and left NC contact blocks on circuit code E or F may overlap each other while turning the ring operator. The NO and NC contact blocks on circuit code F may overlap each other while pressing the button.

• When using the selector pushbutton, do not turn the ring operator with the pushbutton depressed. Otherwise, damage or failure may be caused.

• Selector switches with 🖄 have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same. • See page 16 for bottom view.

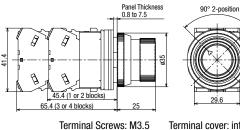
Contact Block Mounting Position



Dimensions

Ring operator (90° 2-position)

(All dimensions in mm.)



Terminal cover: integrated



Pilot Lights Round, Square Extended, Rectangular (Marking)

						Pa	ckage Quantity: 1
Shape	Illumination	Base	Rated Voltage	Part No. (Ordering No.)	Color Code	LED Lamp Part No.	Dimensions Page
Round APN1			24V AC/DC	APN122DN*	R, G, Y, A, W, S, PW	LSTD-2*	
			100/110V AC	APN116DN*	R, G, Y, A, W, S, PW		
(24V AC/DC)	LED	BA9S	200/220V AC	APN126DN*	R, G, Y, A, W, S, PW	LSTD-6*	
Square Extended UPQN3B		BA9S	24V AC/DC	UPQN3B22D*	R, G, Y, A, W, S	LSTD-2*	
	LED		100/110V AC	UPQN3B16D*	R, G, Y, A, W, S	LSTD-6*	29
(24V AC/DC)			200/220V AC	UPQN3B26D*	R, G, Y, A, W, S	L31D-0*	
Rectangular (Marking) UPQN4			24V AC/DC	UPQN422D*	R, G, Y, A, W, S	LSTD-2*	
	LED	BA9S	100/110V AC	UPQN416D* R, G, Y, A, W, S			
(24V AC/DC)			200/220V AC	UPQN426D*	R, G, Y, A, W, S		

· Specify a color code in place of * in Part No.

R (red), G (green), Y (yellow), A (amber), W (white), S (blue), PW (pure white)

• Round bezel (metal): chrome-plated

• Square bezel (metal): chrome-plated

Pilot lights have an LED lamp installed.

• Use a pure white (PW) LED for yellow (Y) illumination.

• On the rectangular marking pilot light, a clear lens and a color marking plate (white) are used for W (white) illumination.

- See page 50 for the marking plate size of rectangular pilot lights.
- See page 13 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.

See page 13 for how to specify units without LED lamps. When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape. Make sure of correct operation before installation. The operation of illuminated pushbutton switches cannot be guaranteed when a commercially available lamp is used. When using a commercially available lamp on rectangular (marking) type, remove the reflector.
 Terminal cover is installed on pilot lights for electric shock prevention.

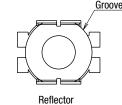
forminal cover to motalica on p	not lighte for clocal	io onoon pro	
Туре	Terminal Cover	Quantity	
6V, 12V, 24V AC/DC	APN-PVL		
100V/110V AC, 200/220V AC	N-VL3	1	
110V DC	N-VL3	1	

Note: DC-DC converter types are not approved by UL and CSA, and not CE compliant.

See page 18 for bottom view.

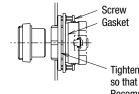
Reflector

- 1. The lamp housing of the square LED illuminated pilot lights has a built-in reflector.
- 2. Make sure that the reflector does not fall off when removing the lens or making plate.
- 3. When replacing the LED lamp of UPQN4 (rectangular), use a lamp holder tool (0R-55).
- 4. To remove the reflector, insert a flat screwdriver inside the groove of the reflector and lightly push out.



Panel Mounting of Square Pilot Lights

- 1. Tighten the square bezel to the operator and position the bezel correctly.
- 2. Lightly tighten the screw to secure the pilot light on the panel.
- 3. After tightening, do not turn the square bezel, otherwise it may fall off.



Tighten the screw lightly so that the panel does not bend. Recommended tightening torque: 0.15 Nm

pecifications
LED Ratings
pecifications
Degree of Protection

Ordering Part No.

Selection Guide

S

S

Development

TWN Series

TWND Series Diecast Zinc

Pushbutton

Illuminated Pushbutton Selector Switch Selector Pushbutton

Instructions

Comparison

Part No.

28 **IDEC**

Accessory 1 Th

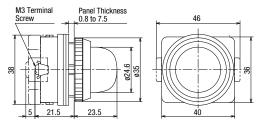
Dimensions

Round

APN1

All dimensions in mm.

6V, 12V, 24V AC/DC (Terminal Cover: APN-PVL) Without LED Lamp

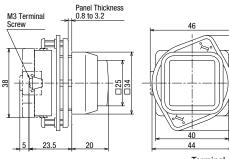


Terminal screws: M3

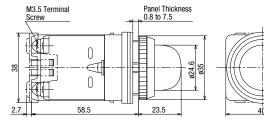
Square Extended

UPQN3B

6V, 12V, 24V AC/DC (Terminal Cover: APN-PVL) Without LED Lamp



.0 0 Terminal screws: M3



100 to 480V AC, 110V DC (Terminal Cover: N-VL3)

100 to 480V AC, 110V DC (Terminal Cover: N-VL3)

0

0

60

 $\in \mathbb{T}$

M3.5 Terminal

Screw

KA

-

1

8

2.7

Panel Thickness 0.8 to 3.2

20

0.25

Terminal screws: M3.5

Ratings/ Specifications LED Ratings Specifications

Selection Guide

Degree of Protection

Ordering

Part No. Development



36

TWND Series

Diecast Zinc



Pilot Light

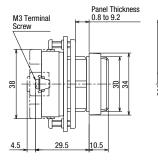
Accessory

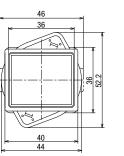
Instructions

Part No. Comparison

Rectangular (Marking) UPQN4

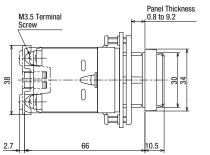
6V, 12V, 24V AC/DC (Terminal Cover: APN-PVL) Without LED Lamp





Terminal screws: M3

100 to 480V AC, 110V DC (Terminal Cover: N-VL3)



2 80 40

40

44

Terminal screws: M3.5

Terminal screws: M3.5



Flush/Extended/Extended with Half Shroud/Extended with Full Shroud

							Package Quantity: 1
	Shape	Operation	Contact	Part No. (Ordering No.)	Button Color Code	Dimensions (All	dimensions in mm.)
	Flush ABD1		1N0 1NC	ABD110N* ABD101N*	B G		
	AOD1	Momontory	1NO-1NC	ABD111N*	R Y		
		Momentary	2N0	ABD120N*	S	Panel Thickness 0.8 to 7.5	ø39
			2NC	ABD102N*	W		
			2N0-2NC	ABD122N*	Note		
			1N0	AOD110N*	В		
			1NC	AOD101N*	G R	45.4 (1 or 2 blocks)	224
Selection Guide		Maintained	1NO-1NC	AOD111N*	n Y	65.4 (3 or 4 blocks) 9	40 ×
Ratings/		maintainou	2N0	AOD120N*	S		
Specifications			2NC	AOD102N*	W		
LED Ratings			2N0-2NC	AOD122N*	Note		
	Extended ABD2		1N0	ABD210N*	В		
Specifications	ADD2 AOD2		1NC	ABD201N*	G		
Degree of		Momentary	1NO-1NC	ABD211N*	R		
Protection		, including ,	2N0	ABD220N*	Y S	Panel Thickness 0.8 to 7.5	ø39
Ordering			2NC	ABD202N*	W N		
Part No.			2N0-2NC	ABD222N*			
Development			1N0	AOD210N*	В		
			1NC	AOD201N*	G R Y S	45.4 (1 or 2 blocks)	29.4
		Maintained	1NO-1NC	AOD211N*		65.4(3 or 4 blocks) 14	<u>40</u>
TWN Series			2N0	AOD220N*			
TWND Series			2NC	AOD202N*		26	
Diecast Zinc	5		2N0-2NC	AOD222N*		2.20	
	Extended with Half Shroud ABGD2		1N0	ABGD210N*	вО		
	AOGD2		1NC	ABGD201N*	G		
Pushbutton		Momentary	1NO-1NC	ABGD211N*	R		
Illuminated			2N0	ABGD220N*	Y S	Panel Thickness	ø39
Pushbutton Selector			2NC	ABGD202N*	Ŵ		
Switch			2NO-2NC	ABGD222N*			
Selector		n.	1N0	AOGD210N*	В	924 A 4	
Pushbutton				A0GD201N*	G	40.9 (1 or 2 blocks) 18.5	29.4
Pilot Light		Maintained	1NO-1NC	AOGD211N*	R Y	60.9 (3 or 4 blocks)	k <u>40 →</u>
			2N0 2NC	AOGD220N*	S		
			2NC 2NO-2NC	AOGD202N* AOGD222N*	Ŵ		
Accessory	Extended with Full Shroud		1N0	AUGD222N* ABFD210N*			
	ABFD2		1NC	ABFD210N*	В		
Instructions	A0FD2		1NO-1NC	ABFD201N*	G		
Part No.		Momentary	2N0	ABFD211N* ABFD220N*	R Y	Danal Thisbass	
Comparison			2N0 2NC	ABFD220N*	S	Panel Thickness 	/ <u>039</u>
			2NO-2NC	ABFD202N*	W		
			1N0-2N0	AOFD222IN*			
			1NC	AOFD210N*	В		
			1NO-1NC	AOFD201N*	G	45.4 (1 or 2 blocks) 14	29.4
		Maintained	2N0	AOFD211N*	R Y	65.4 (3 or 4 blocks) 16.5	e <u>40</u>
			2NC	AOFD220N*	S		
			2N0-2NC	AOFD202N*	W		
	 Specify a color code in place of * i 					I	

• Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow), S (blue), W (white)

• Round bezel (metal): Chrome-plated

• Pushbuttons with 1 or 3 contact blocks have a dummy block.

• See page 11 for other contact configurations and gold-plated silver contacts.

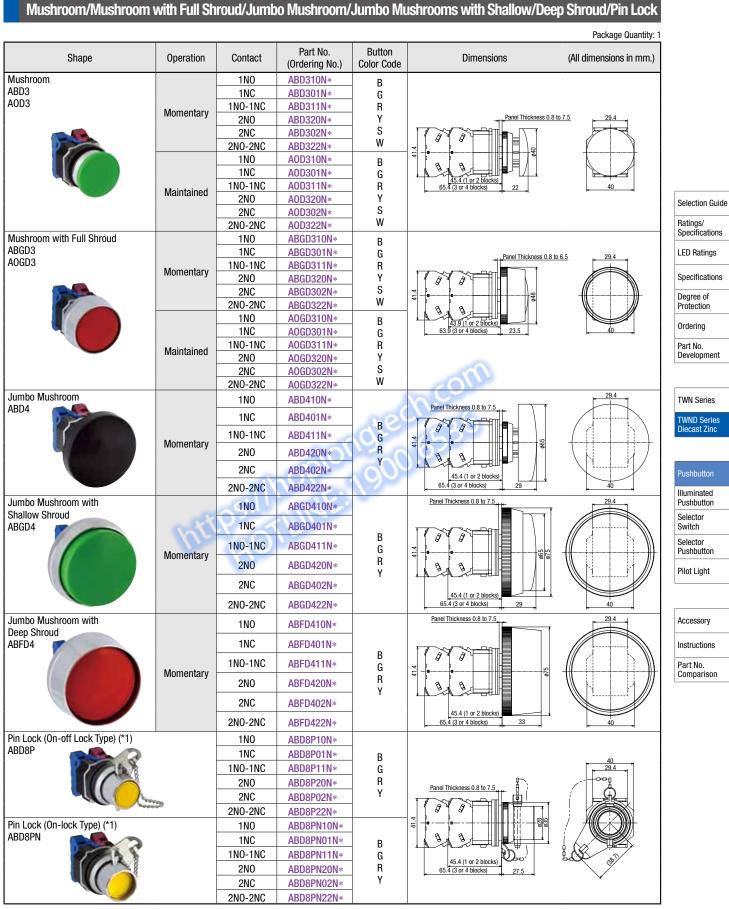
• See page 16 for bottom view.

• Terminal screws: M3.5

· Integrated terminal cover

Note ABD1, AOD1 with button color of B (black), G (green), or (R) red

Supply of color buttons B, G, R has been discontinued for ABD1/AOD1 without color code. When ordering, make sure to specify the required button code.



• Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow), S (blue), W (white)

Round bezel (metal): Chrome-plated

 Pin Lock (On-lock type): Button can be locked in depressed position by inserting the pin (the button cannot be locked in reset position).

• Pushbuttons with 1 or 3 contact blocks have a dummy block.

See page 11 for other contact configurations and gold-plated silver contacts.
See page 46 for maintenance parts.

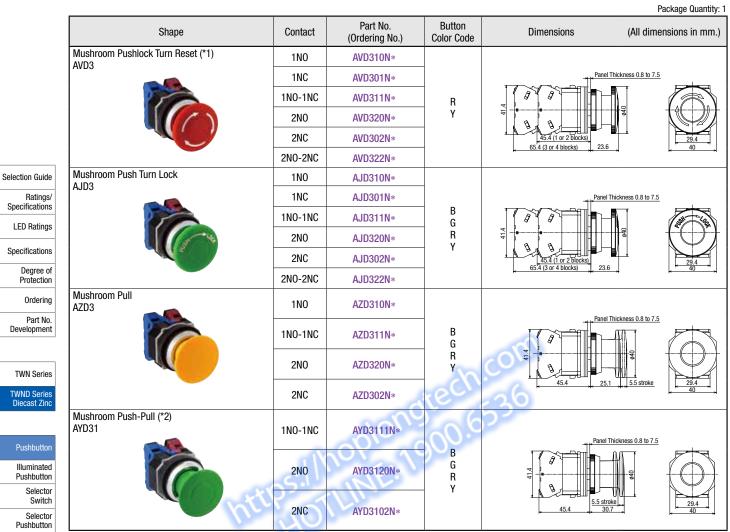
*1) The pin for ABD8P is Ø4.6 mm and is not compatible with ABN8P (old series).

See page 16 for bottom view.

Terminal screws: M3.5

Integrated terminal cover

Pushlock Turn Reset/Push Turn Lock/Pull/Push-Pull



• Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow)

• Round bezel (metal): Chrome-plated

• Pushbuttons with 1 or 3 contact blocks have a dummy block.

• See page 11 for other contact configurations and gold-plated silver contacts.

- Mushroom pull has up to 2 contact blocks.
- *1) Pushlock turn reset switches cannot be used as emergency stop switches. When emergency stop switches are required, use XN or HN series emergency stop switches (ISO 13850 and IEC 60947-5-5 compliant).
- *2) Push-Pull switches with red button cannot be used as emergency stop switches. When emergency stop switches are required, use XN series emergency stop switches (ISO 13850 and IEC 60947-5-5 compliant).

• See page 16 for bottom view.

- Terminal screws: M3.5
- · Integrated terminal cover
- Pushbutton operation

Pushlock Turn Reset

Button is maintained when pressed and is reset when turned clockwise.

Push Turn Lock

Button is locked when turned clockwise in the depressed position and is reset when turned counterclockwise.

Pull

Pilot Light

Accessory

Instructions

Comparison

Part No.

Pulling the button operates the contacts, and releasing the button return the contacts.

Push-Pull

2-position switches with button maintained in both depressed and reset positions.

Pull contact operation

Contract	AZD3								
Contact	Normal	Pull							
1N0	σ ^L O	-L 0 0							
2N0-2NC	o <u>r</u> o ∂ •	•1•							
2N0	منی میں								
2NC	•••								

Contact	AYE)31									
Contact	Push	Pull									
1N0	പ്പ 🕂	•• • •									
2N0	مىن مىن	10 0 10									
2NC	•••										



• Specify a color code in place of * in Part No. R (red), G (green), Y (yellow), A (amber), W (white), S (blue), PW (pure white)

Illuminated pushbuttons have an LED lamp installed.

Round bezel (metal): Chrome-plated

See page 12 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.

• See page 12 for other contact configurations and gold-plated silver contacts.

. Illuminated pushbutttons of 24V AC/DC or below with 2 or 4 contact blocks have a dummy block.

. See page 13 for how to specify units without LED lamps. When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape. Make sure of correct operation before installation. The operation of illuminated pushbutton switches cannot be guaranteed when a commercially available lamp is used.

See page 18 for bottom view.

All dimensions in mm

Accessory

Instructions

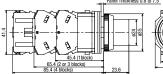
Comparison

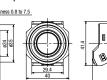
Part No.

Dimensions

Extended, LED illuminated (momentary/maintained) ALD2/AOLD2 (terminal screws M3.5) Integrated terminal cover

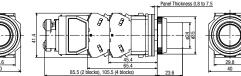
6, 12, 24V AC/DC · Without LED Lamp





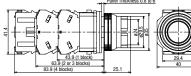
100/110V AC, 200/220V AC (240V AC or below)

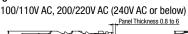




Extended with Full Shroud, LED illuminated (momentary/maintained) ALFD2/A0LFD2 (terminal screws M3.5) Integrated terminal cover

6, 12, 24V AC/DC · Without LED Lamp anel Thickness 0.8 to 6

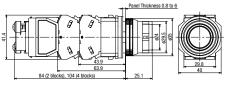




(s), 95.5 (

110V DC, 380V AC or over

110V DC, 380V AC or over



LED Illuminated Mushroom (ø40)/Mushroom Pushlock Turn Reset

Shape	Base	Operation	Operating Voltage	Contact	Part No. (Ordering No.)	Color C
Mushroom (ø40)				1NO-1NC	ALD32211DN*	
ALD3			24V AC/DC	2N0	ALD32220DN*	
AOLD3				2NC	ALD32202DN*	R
Contraction of the second seco				1NO-1NC	ALD31611DN*	G
		Momentary	100/110V AC	2N0	ALD31620DN*	Ŷ
				2NC	ALD31602DN*	W
				1NO-1NC	ALD32611DN*	S
			200/220V AC	2N0	ALD32620DN*	
(24V AC/DC)	BA9S			2NC	ALD32602DN*	
	DA95			1NO-1NC	AOLD32211DN*	
			24V AC/DC	2N0	AOLD32220DN*	R G Y A W
				2NC	AOLD32202DN*	
		Maintained	100/110V AC	1NO-1NC	AOLD31611DN*	
				2N0	AOLD31620DN*	
				2NC	AOLD31602DN*	
				1NO-1NC	AOLD32611DN*	S
With transformer			200/220V AC	2N0	AOLD32620DN*	
(100/110V AC)				2NC	AOLD32602DN*	
Mushroom Pushlock Turn Reset (*1)				1N0-1NC	AVLD32211DN*	
AVLD3			24V AC/DC	2N0	AVLD32220DN*	
				2NC	AVLD32202DN*	
2				1NO-1NC	AVLD31611DN*	
	BA9S	—	100/110V AC	2N0	AVLD31620DN*	R
				2NC	AVLD31602DN*	
			any	1NO-1NC	AVLD32611DN*	
(24V AC/DC)			200/220V AC	2N0	AVLD32620DN*	
(211710,20)				2NC	AVLD32602DN*	

• Specify a color code in place of * in Part No. R (red), G (green), Y (yellow), A (amber), W (white), S (blue)

· Illuminated pushbuttons have an LED lamp installed.

• Round bezel (metal): Chrome-plated

See page 12 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.

- See page 12 for other contact configurations and gold-plated silver contacts.
- Illuminated pushbuttons of 24V AC/DC or below with 2 or 4 contact blocks have a dummy block.
- See page 13 for how to specify units without lamps. When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape. Make sure of correct operation before installation. The operation of illuminated pushbutton switches cannot be guaranteed when a commercially available lamp is used.
- *1) Pushlock turn reset switches cannot be used as emergency stop switches. When emergency stop switches are required, use XN or HN series emergency stop switches (ISO 13850 and IEC 60947-5-5 compliant).

 See page 18 for bottom view. Illuminated pushbutton operation

Pushlock Turn Reset

Selection Gu Ratin Specificatio LED Ratir Specificatio Degree Protect Order Part I Developm

> TWN Ser TWND Se

Pushbut

Selector Switch

Selector Pushbutton

Pilot Light

Accessory

Instructions

Comparison

Part No.

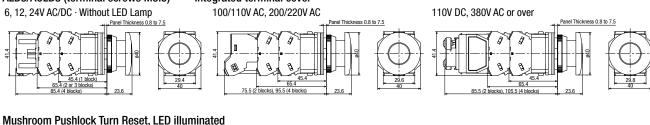
Button is maintained when pressed and is reset when turned clockwise.

Dimensions

Mushroom, LED illuminated (momentary/maintained)



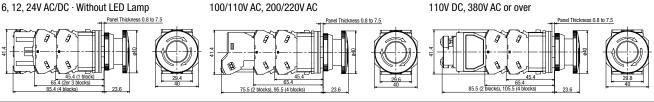




AVLD (terminal screws M3.5)

Integrated terminal cover





34 IDEC



ASD Selector Switches (Knob Operator)

													Package Quantity: 1	
Shape	Knob Operat ASD	or					Ĩ.							
		Contact C	onfiguratio	n			Maintained	Spring Return from Right		Spring	Return	I from L	.eft	
		Contact	Block)perate Positio		1 2	1 2	Contac	t Block		erator	1 2	
	Contact	Mounting Position	Contact	1	2				Mounting Position			2		
	1N0 (10)	① ②	NO —	Dur	• nmy B	lock	ASD210N	ASD2110N	① ②	NO —	•	_	ASD2210N	Select Rating
90° 2-position	1NO-1NC (11)	0	NO NC	•	•		ASD211N	ASD2111N	0	NO NC	•	•	ASD2211N	Specif LED R
	2N0 (20)	0	NO NO	-	•		ASD220N	ASD2120N	0 2	NO NO	•		ASD2220N	Specif
	2N0-2NC	0	NO NC	•	•		ACDOON	ACDOTOON	0	NO NC	•	•		Degre Protec
	(22)	3 4	NO NC	•	•		ASD222N	ASD2122N	3 4	NO NC			ASD2222N	Orderi Part N
-		Contact C	onfiguratio				Maintained	Spring Return from Right	-m	Spring Return from Left			Spring Return Two-way	Develo
	Contact	Contact Mounting)perate Positio	n		1 0 2						TWN S
	0110	Position	Contact NO	1	0	2		dit i	30				TWND Diecas	
	2N0 (20)	 	NO			•	ASD320N	ASD3120N	_	ASD32201		ASD3320N		
	2NC (02)	① ②	NC NC			P	ASD302N	ASD3102N		ASD3202N			ASD3302N	Pushb
		0	NO	•	LC.		INE.						Illumir Pushb	
45°	2NO-2NC (22)	2 3	NO NC	Č			ASD322N	ASD3122N	ASD3222N				ASD3322N	Select Switch Select
3-position		④	NC NO	•										Pushb Pilot L
	4N0 (40)	2 3	NO NO	•		•	ASD340N	ASD3140N		ASD32401	N		ASD3340N	
		④	NO NC											Acces
	4NC (04)	2 3	NC NC NC				ASD304N	ASD3104N		ASD3204I	N		ASD3304N	Instrue Part N
	☆	4 1) 2	NC NO NO	•		•								Comp
	35	3 ④	NC —	Dur	• nmy B	lock	ASD33SN-243	_		_	—			

Knob: Black

Round bezel (metal): Chrome-plated
Selector switches with 1 or 3 contact blocks have a dummy block.
Knob operator can be installed at every 45 degrees intervals in addition to the positions shown in the above table.
See page 25 to 26 for other contact configurations.

Contact Block Mounting Position



Turn the operator to each position accurately.
Selector switches with ☆ have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
See page 12 for gold-plated silver contacts.

• See page 16 for bottom view.

All dimensions in mm. Dimensions 90° 2-position Panel Thickness 45° (3-p 0.8 to 7.5 4 ĝ 1.4 B B 45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 294 21.1

Terminal Screws: M3.5

Terminal cover: integrated



ASD L Selector Switches (Lever Operator)

														Package Quantity: 1
	Shape	Lever Opera ASD□L	ator					Ţ	Ç					
			Contact C	Configurati	ion			Maintained	Spring Return from Right		Spri	ing Re	turn fro	om Left
			Contact	Block)perator Position		1 2	1 2	Contac	t Block		erator	1 2
Selection Guide		Contact	Mounting Position	Contact	1	2				Mounting Position	Contact	1	2	
Ratings/ Specifications		1NO (10)	① ②	NO 	Dun	• nmy Blo	ock.	ASD2L10N	ASD21L10N	1) 2	NO —	•		ASD22L10N
LED Ratings	90° 2-position	1NO-1NC	0	NO	Duii		JUN	ASD2111N	ASD21L11N	0	NO	•		
Specifications	_ poonion	(11)	2	NC	•			ASD2L11N	ASDZILIIN	2	NC	-	•	ASD22L11N
Degree of Protection		2N0 (20)	0	NO NO		•		ASD2L20N	ASD21L20N	① ②	NO NO	•		ASD22L20N
Ordering			0	NO		•				0	NO	•		
Part No.		2NO-2NC (22)	2 3	NC NO	•			ASD2L22N	ASD21L22N	2	NC NO	•	•	ASD22L22N
Development		(22)	() (4)	NC	•					(4)	NC	•	•	-
			Contact C	Configurati	ion	<u> </u>		Maintained						Spring Return Two-way
TWN Series TWND Series			Contact	Block		Operator				1,02				
Diecast Zinc		Contact	Mounting Position	Contact	1	Position 2				90		Ż		
Pushbutton		2N0 (20)	① ②	NO NO	•		•	ASD3L20N	ASD31L20N		ASD32L2	ON		ASD33L20N
Illuminated		(20) 2NC	0	NC							4000010	0.11		
Pushbutton Selector		(02)	2	NC	•		11	ASD3L02N	ASD31L02N		ASD32L0	2N		ASD33L02N
Switch		2NO-2NC	0	NO NO										
Selector Pushbutton	459	(22)	3	NC				ASD3L22N	ASD31L22N		ASD32L2	2N		ASD33L22N
Pilot Light	45° 3-position		4	NC										
		4N0	0	NO NO	•		•							
A0000000		(40)	3	NO	•			ASD3L40N	ASD31L40N		ASD32L4	ON		ASD33L40N
Accessory			4	NO			•							
Instructions		4NC	0	NC NC										
Part No. Comparison		(04)	3	NC				ASD3L04N	ASD31L04N		ASD32L0	4N		ASD33L04N
			4	NC										
			0	NO	•	$\left \right $	•							
		☆ 3S	2	NO NC		•	•		—		_			_
		აა	3 ④	NC	Dun	nmy Blo	nek	ASD3L3SN-243						
		· · · · · ·	4)		Duii	ппу ыс	JUK		Turn the operator to e					

Lever: Black

Level. DidLK
Round bezel (metal): Chrome-plated
Selector switches with 1 or 3 contact blocks have a dummy block.
Knob operator can be installed at every 45 degrees intervals in addition to the positions shown in the above table.

Contact Block Mounting Position

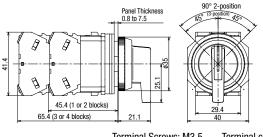


Turn the operator to each position accurately.
Selector switches with ☆ have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
See page 12 for gold-plated silver contacts.

• See page 16 for bottom view.

Dimensions

All dimensions in mm.



Terminal Screws: M3.5

Terminal cover: integrated

ASD K Key Selector Switches

	Koy Coloct												Package Quantity: 1	1
Shape	Key Selecto ASD⊡K	r (Key No. v	U)											
		Contact (Configurati	tion		1	Maintained	Spring Return from Right		Spri	ing Ret	turn fror	m Left	
	Contact	Contact			perator Position		1 2		Contact			rator ition	1, 2	
	Gonaci	Mounting Position	Contact	1	2				Mounting Position	Contact	1	2		Selection G
	1N0	0	NO				0D0//10N	40D011/10N	0	NO	•			Ratings/ Specificatio
000	(10)	2		Dum	nmy Bloc	sk As	SD2K10N	ASD21K10N	2		<u> </u>	!	ASD22K10N	·
90° 2-position	1N0-1NC	0	NO	\Box	•		CDOV11N	ASD21K11N	0	NO				LED Ratings
2-poonton.	(11)	2	NC			AU	SD2K11N	ASUZIKIIN	2	NC			ASD22K11N	Specificatio
	2N0	0	NO		•	A.	ODO//OON	40D01//20N	0	NO				Degree of
	(20)	2	NO			Ac	SD2K20N	ASD21K20N	2	NO			ASD22K20N	Protection
	,,	0	NO		•				0	NO				Ordering
	2N0-2NC	2	NC				556//00M	100041/001	2	NC			1	
	(22)	3	NO			Að	SD2K22N	ASD21K22N	3	NO	•		ASD22K22N	Part No. Developmer
	· · · · ·	4	NC	•				I	4	NC		•	I	Development
			Configurati	tion		,	Maintained	Spring Return from Right		ng Return fr	from Le	əft	Spring Return Two-way	
		Contact	t Block)perator	-		do.	20				Two way	TWN Series
	Contact	Mounting Position			Position 2		1 0 2		30		2			TWND Serie Diecast Zind
	2N0	1 00111011	NO	•		-								I
	(20)	2	NO		(ASI	SD3K20N	ASD31K20N		ASD32K20	.ON	ļ	ASD33K20N	Pushbutton
	2NC	0	NC											-
	(02)	2	NC			AS	SD3K02N	ASD31K02N		ASD32K02	2N	ļ	ASD33K02N	Illuminated Pushbutton
		0	NO		207				+					Selector
	2NO-2NC	2	NO	RT.		•		I				ļ	I	Switch
	(22)	3	NC			AS	D3K22N	ASD31K22N		ASD32K22	.2N	ļ	ASD33K22N	Selector Pushbutton
45°		4	NC					I				ļ	I	
3-position	├ ───┤	0	NO	•					+					Pilot Light
	4N0	 ②	NO		1	•		l				ļ	I	
	4NO (40)	3	NO	•	\square	AS	SD3K40N	ASD31K40N		ASD32K40	,ON	ļ	ASD33K40N	l
	(,	(j) (4)	NO		\square	•		I				ļ	I	Accessory
	'	(4) (1)	NC	\vdash		<u> </u>			+					1
		0 Q	NC		<u> </u>			I				ļ	I	Instruction
	4NC (04)	3	NC			AS'	SD3K04N	ASD31K04N		ASD32K04	/4N	ļ	ASD33K04N	Part No.
	י ידט)		NC			4		I				ļ	I	Compariso
	'	4			┍╾								+	4
	/ · · · ·	0	NO	•	\vdash	_	\$	I				ļ	I	1
	☆ 3S	2	NO	\vdash			5D3K3SN-243	ı —		_		ļ	I _ /	1
	35	3	NC				79499M-5-19	I				ļ		1
	· · ·	4		Dum	nmy Bloc	JK ∣	1	1				/		1

• Round bezel (metal): Chrome-plated

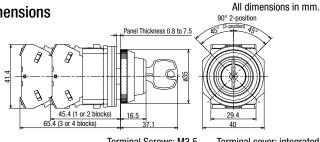
Key selector switches with 1 or 3 contact blocks have a dummy block.
On spring-returned types, the key can be released only from the maintained position. On maintained types, the key can be released from every position. See page 12 for specifying key retained positions.

Contact Block Mounting Position



Key selector switch is supplied with two standard keys.
(1) Insert the key completely before turning the key, otherwise failure will result.
(2) Turn the operator to each position accurately.
Different key number is available upon request. Contact IDEC.
Selector switches with ☆ have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
See page 12 for gold-plated silver contacts.
See page 16 for bottom view.

Dimensions



Terminal Screws: M3.5

Terminal cover: integrated



ASLD Illuminated Selector Switches (LED)

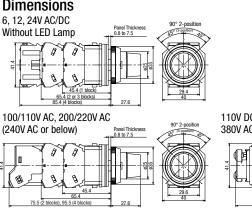
															Package	Quantity
	Shape	Illuminat ASLD	ninated Selector Switches (BA9S Base) D													
									(24V AC/DC)							
			Contact	Configurat	tion				Maintained	Spring Return from Right		Sprir	ng Re	turn f	rom Left	
			Contact	Block		perat ositio		Operating	1 0	1 2	Contact	Block		rator ition	1 * 2	Color
		Contact	Mounting Position	Contact	1	2		- Voltage			Mounting Position	Contact	1	2		Code
Selection Guide			1	NO		٠		24V AC/DC	ASLD22211DN*	ASLD212211DN*	1	NO	•		ASLD222211DN*	
Ratings/		1NO-1NC (11)	2	NC	\bullet			100/110V AC	ASLD21611DN*	ASLD211611DN*	2	NC		•	ASLD221611DN*	
Specifications	90°	()						200/220V AC	ASLD22611DN*	ASLD212611DN*					ASLD222611DN*	R
LED Ratings	2-position	010	1	NO		۲		24V AC/DC	ASLD22220DN*	ASLD212220DN*	1	NO	٠		ASLD222220DN*	G
		2NO (20)	2	NO		\bullet		100/110V AC	ASLD21620DN*	ASLD211620DN*	2	NO	۲		ASLD221620DN*	Y A
Specifications		(20)						200/220V AC	ASLD22620DN*	ASLD212620DN*					ASLD222620DN*	Ŵ
Degree of			1	NO		۲		24V AC/DC	ASLD22222DN*	ASLD212222DN*	1	NO	٠		ASLD222222DN*	S
Protection		2N0-2NC	2	NC	\bullet			100/110V AC	ASLD21622DN*	ASLD211622DN*	2	NC			ASLD221622DN*	PW
Ordering		(22)	3	NO		●		200/220V AC	ASLD22622DN*	ASLD212622DN*	3	NO	٠		ASLD222622DN*	
			4	NC	\bullet				_	—	4	NC		•		
Part No. Development			Contact	Configurat					Maintained	Spring Return from Right	Spring	Return fro	m Le	ft	Spring Return Two-way	
		Contact	Contact Mounting	Block Contact		perat ositio 0		Operating Voltage	1 0 2		010					Color Code
TWN Series			Position				-	0.01/10/00			101					
TWND Series		2N0	0	NO	•			24V AC/DC	ASLD32220DN*	ASLD312220DN*		0322220			ASLD332220DN*	_
Diecast Zinc		(20)	2	NO			•	100/110V AC	ASLD31620DN*	ASLD311620DN*		0321620			ASLD331620DN*	_
			(1)	NC				200/220V AC 24V AC/DC	ASLD32620DN*	ASLD312620DN*		0322620			ASLD332620DN*	_
		2NC	 	NC		5		100/110V AC	ASLD32202DN* ASLD31602DN*	ASLD312202DN* ASLD311602DN*		D322202 D321602			ASLD332202DN* ASLD331602DN*	_
Pushbutton		(02)		NO				200/220V AC	ASLD32602DN*	ASLD312602DN*		0322602			ASLD332602DN*	-
Illuminated Pushbutton	45°		1	NO				24V AC/DC	ASLD32002DN*	ASLD312222DN*)3222002			ASLD332002DN*	_
Selector	3-position	2NO-2NC	 	NO				100/110V AC	ASLD31622DN*	ASLD311622DN*		0321622			ASLD331622DN*	- R G
Switch		(22)	3	NC			5	200/220V AC	ASLD32622DN*	ASLD312622DN*		0322622			ASLD332622DN*	Y
Selector			4	NC					_		TIOL	_				A W
Pushbutton			0	NO	•			24V AC/DC	ASLD32240DN*	ASLD312240DN*	ASLI	0322240	DN*		ASLD332240DN*	S
		4N0	0	NO	-		•	100/110V AC	ASLD31640DN*	ASLD311640DN*		0321640			ASLD331640DN*	PW
Pilot Light				NO	•			200/220V AC	ASLD32640DN*	ASLD312640DN*		0322640			ASLD332640DN*	1
Pilot Light		(40)	3	UNU												4
Pilot Light		(40)	3 	NO			٠	_	_	—		_			_	
		(40)					•		ASLD32204DN*	ASLD312204DN*	ASLI	0322204	DN*			_
Pilot Light Accessory		(40) 4NC	4	NO			•	—	_	ASLD312204DN* ASLD311604DN*		 0322204 0321604				
			(4) (1)	NO NC				 24V AC/DC	ASLD32204DN*		ASLI		DN*		ASLD332204DN*	-

Specify a color code in place of * in Part No. R (red), G (green), Y (yellow), A (amber), W (white), S (blue). PW (pure white)
 Round bezel (metal): Chrome-plated

Hound bezel (metal): Chrome-plated
Illuminated selector switches have an LED lamp installed.
Use a pure white (PW) LED for yellow (Y) illumination.
See page 13 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.
Illuminated selector switches of 24V AC/DC or below with 2 or 4 contact blocks have a dummy block.



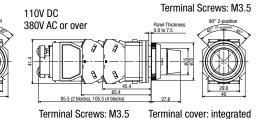




See page 13 for how to specify units without LED lamps. When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape. Make sure of correct operation before installation. The operation of illuminated selected switches cannot be guaranteed when a commercially available lamp is used.

• Turn the operator to each position accurately.

See page 13 for gold-plated silver contacts.
See page 18 for bottom view.



ASBD2 Selector Pushbuttons

										Package Quantity: 1	
Shape	Contact Configuration	Circuit Code			Ring Position Left Pushbutton		Button Color Code	Ring Operator	or		
			Mounting Position	Contact	Normal		outton Normal	Push	oodo	Part No. (Ordering No.)	
Ring Operator (90°2-position) ASBD2	11	A03	0	NO		•		•	B G	ASBD211N-A03*	
	(1NO-1NC)		Q	NC	•				R Y	NODD21111 NOO	
			0	NO		•		•			Selection Guide
		A08	2 3	NC NO	•	•		•		ASBD222N-A08*	Ratings/ Specifications
			4	NC	•						LED Ratings
		⊄ C10	0	NO		•		•			
			2	NO				•	-	☆ ASBD222N-C10∗	Specifications
		C10	3 ④	NC NC	•					ASBD222N-C10*	Degree of Protection
			0	NO		•			В		Ordering
	22	D10	2	NO				•	G R	ASBD222N-D10*	Part No.
	(2NO-2NC)	2.0	3	NC	•	_			R Y	NOBBLEEN DIG	Development
			(4) (1)	NC NO			•				
			 	NO			C	•			TWN Series
		☆ E10	3	NC		<u>ري</u>				☆ ASBD222N-E10∗	TWND Series
			4	NC			12	20			Diecast Zinc
			0	NO	9		2	•			
		☆ F10	2 3	NO NC	5	• •	•			☆ ASBD222N-F10∗	Pushbutton
		1.0	4	NC	•		-				Illuminated
 Specify a color code in place of * in 	n Part No. B (black), G (green)									Pushbutton

• Bezel (metal): Chrome-plated

• Circuit codes E and F: The right and left NC contact blocks on circuit code E or F may overlap each other while turning the ring operator. The NO and NC contact blocks on circuit code F may overlap each other while pressing the button.

. When using the selector pushbutton, do not turn the ring operator with the pushbutton depressed. Otherwise, damage or failure may be caused.

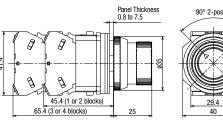
• Selector switches with 🖄 have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same. • See page 16 for bottom view.

Contact Block Mounting Position



Dimensions

Ring operator (90° 2-position)



90° 2-position

Terminal Screws: M3.5 Terminal cover: integrated

All dimensions in mm.



Accessory

Selector

Switch

Selector Pushbutton

Pilot Light

Pilot Lights (Round)

						Package Quantity: 1	
Shape	Illumination	Base	Operating Voltage	Part No. (Ordering No.)	Color Code	LED Lamp Part No.	
Round APD1			24V AC/DC	APD122DN*	R, G, Y, A, W, S, PW	LSTD-2*	
	LED	BA9S	100/110V AC	APD116DN*	R, G, Y, A, W, S, PW	LSTD-6*	
(24V AC/DC)			200/220V AC	APD126DN*	R, G, Y, A, W, S, PW		

• Specify a color code in place of * in Part No.

R (red), G (green), Y (yellow), A (amber), W (white), S (blue), PW (pure white)

Round bezel (metal): Chrome-plated
Pilot lights have an LED lamp installed.

Selection Guide Ratings/ Specifications

- Use a pure white (PW) LED for yellow (Y) illumination.
- See page 13 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.
 See page 13 for how to specify units without LED lamps.
- When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape. Make sure of correct operation before installation. The operation of pilots lights cannot be guaranteed when a commercially available lamp is used. vention.

 Ierminal cover is installed on 	 Terminal cover is installed on pilot lights for electric shock previous 										
Туре	Terminal Cover	Quantity									
6V, 12V, 24V AC/DC	APN-PVL	1									
100V/110V AC, 200/220V AC	N-VL3	1									
110V DC	N-VL3	1									

Note: DC-DC converter types are not approved by UL and CSA, and not CE compliant. • See page 18 for bottom view.

Dimensions

Round, LED illuminated

6V, 12V, 24V AC/DC · Without LED Lamp (Terminal Cover: APD-PVL)



100 to 480V AC, 110V DC (Terminal Cover: N-VL3)

Terminal Screws: M3.5

Terminal Screws: M3.5

All dimensions in mm.



LED Ratings

Specifications Degree of Protection Ordering Part No. Development

TWN Series

TWND Series Diecast Zind

Pushbutton

Illuminated

Pushbutton

Selector

Switch Selector Pushbutton

Pilot Light

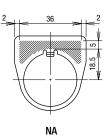
Nameplates

Model	Legend	Material	Part No.	Ordering No.	Package Quantity	Dimensions (mm)		
NA				NA-0	1	u 40 u uu1.2		
	Blank	Aluminium 1.2 mm thick	NA-0	NA-OPN10	10			
	With	White letters on black background	NA-□	NA-□	1	₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩		
For TWN/TWND	Legend		NA-L	NA-□PN10	10			
NALO	Blank	Aluminium 1.2 mm thick	NALO	NALO	1			
\cup	DIdHK	Black	NALU	NALOPN10	10	17 17 030.5		
For TWN/TWND						and and in almost of the Ordering Na		



□: Code	Legend
1	ON
2	OFF
3	START
4	STOP
31	OFF ON
35	HAND AUTO
53	HAND OFF AUTO

Shape and Engraving Area



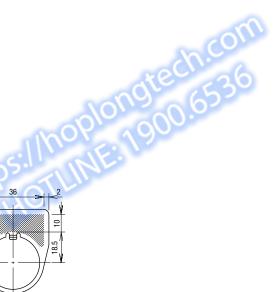
NALO

All dimensions in mm.

Example (when the legend height is 4 mm)

Shape		ng Area m)	Max. No. of Lines	No. of Letters on 1
	Height Width		UI LINES	Line
NA	5	36	1	14
NALO	10	36	2	14

Specify a legend code in place of \Box in the Ordering No.



Selection Guide

Ratings/ Specifications LED Ratings Specifications

Degree of Protection Ordering

Part No. Development

TWN Series TWND Series Diecast Zinc



Shape	Material	Pa	rt No.	Ordering No.	Package Quantity	Remarks	
Button Cover for Extended Pushbuttons		Black	0C-11B	0C-11B	-	 Metallic bezels covered with a rubber boot to enhance waterproof characteristics. Button is not included. Applicable to 	
	Nitril rubber Bezel:	Red	0C-11R	0C-11R	1	 extended pushbuttons only. Oil-proof Operating temperature: 	
S	diecast zinc	Green	0C-11G	0C-11G	-	$-5 \text{ to } +60^{\circ}\text{C.}$	
For TWN/TWN)	Yellow	0C-11Y	0C-11Y		<u>/ M30 P1.5</u>	Selection Guide Ratings/
For flush pushbutton		0C-121 rubber 0C-122		0C-121	1	Used to cover and protect push- buttons where units are subject to water splash. Not suitable for outdoor use or where the units are subject to oil splash	Specifications LED Ratings Specifications
For extended pushbutton	EPDM rubber			0C-122	1	Part No. A B 0C-121 37 16 0C-122 37 22	Degree of Protection Ordering
Dust-proof Rubber Cover for Jumbo Mushrooms						Used for ABN4G and ABGD4 pushbuttons. Panel Thickness 1.2 to 5.5	Part No. Development
	Nitril rubber (black)	OC-4G	N	OC-4GN	1		TWN Series TWND Series Diecast Zinc
For TWN/TWN Padlock Cover					<u>(9)</u>	 Used to protect pushbuttons and illuminated pushbuttons (momentary/maintained) with 24 mm max. height from the panel, 	Dietast Zint
For TWN/TWN	Polyarylate (gasket: nitryl rubber)	OL-KL		OL-KL1	1	and selector switches (knob operator). • Not used for the following models. <u>Pushbuttons</u> Mushroom with full shroud <u>Jumbo mushroom with shroud</u> <u>Illuminated</u> <u>Pushbuttons</u> <u>Panel Thickness</u> <u>Autores</u> <u>Jumbo mushroom with shroud</u> <u>Illuminated</u> <u>Pushbuttons</u> <u>Uutside diameter: e44</u> With half shroud <u>Selector Switches</u> Lever operator Key selector switch with key installed <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Autores</u> <u>Auto</u>	Accessories Accessories
Padlock Cover for Key Selector Switches	Metal Paint: red (zinc-plated brass)	HS9Z-	PC30	HS9Z-PC30	1	• Applicable model <u>Key selector switches ASN K/ASD K</u> See padlock cover catalog for operating instruction.	Part No. Comparison
For Flush Pushbuttons	Metal (zinc-plated brass)	OL-C		OL-C	1	 Used to protect flush pushbuttons from inadvertent operation. Can be easily attached using the locking ring. 	

	Shape		Material	Part No.	Ordering No.	Package Quantity	Remarks
	Metallic Bezel		Metal (diecast zinc: chrome-plated)	0G-11	OG-11PN02	2	 Cannot be used with pin lock, selector pushbuttons, and monolever units.
Selection Guide Ratings/ Specifications LED Ratings Specifications Degree of	Plastic Bezel	WN/TWND	Polycarbonate	OGP-11*	0GP-11*PN02	2	 Specify a color code in place of *. B (black), G (green), R (red), W (white), Y (yellow) Cannot be used with pin lock, selector pushbuttons, and monolever units.
Protection Protection Ordering Part No. Development	ø35/ø26, height 9 Octagonal Metal Bezel ①	For TWN ① Flush W35 (37.6) H9	Metal (diecast zinc:	0G-81	0G-81PN02	2	 Use with TWDN series diecast zinc switches and pilot lights. Cannot be used with half-shrouds.
TWND Series Diecast Zinc	© For TWDN Clear Plastic Shroud for Flush Pushb	② Extended W35 (37.6) H16 wuttons	chrome-plated)	0G-82	0G-82	39	
	ø35, height 14 Clear Plastic Shroud for Extended Pu	For TWN	Acrylic (clear)	OGP-13	0GP-13PN02	2	• Clear plastic full shroud.
Accessories Accessories Part No. Comparison	ø35, height 20.6	For TWN	Acrylic (clear)	OGP-14	0GP-14PN02	2	
	Clear Plastic Shroud for Illuminated Pus Shroud: ø35, height 20.6 Metal Nut Ring: height 4		Acrylic (clear)	0GP-1411	0GP-1411	1	 Buttons may protrude slightly depending on the panel thickness.
	Metal Nut Ring for Illuminated Pusht	For TWN	Metal (diecast zinc)	0L-11	OL-11PN05	5	• Metal nut ring for OGP-1411 only.

s	hape	Material	Part No.	Ordering No.	Package Quantity	Color Code *	
Button for Pushbuttons	① Flush ø24.6, height 4		ABN1BN-*	ABN1BN-*PN05	5		
	② Extended ø24.6, height 9		ABN2BN-*	ABN2BN-*PN05	5	B (black), G (green), R (red), Y (yellow), S (blue), W (white)	
3	③ Mushroom ø40, height 16.2	Polyacetal	ABN3BN-*	ABN3BN-*PN02	2		
(4)	④ Jumbo Mushroom ø65, height 23.2		ABN4BN-*	ABN4BN-*	1	B (black), G (green), R (red), Y (yellow), S (blue)	Selection Guide
5	 S Button for Pin Lock (ABD8P) Ø23.6, height 3 		ABW1B-*	ABW1B-*PN05	5	B (black), G (green), R (red), Y (yellow), S (blue), W (white)	Specifications
	© ø40 Pushlock Turn Reset (AVN3, AVD3) ø40, height 18.5	10	AVN3B-*	AVN3B-*	1	R (red),Y (yellow)	Specifications Degree of Protection
For TWN/TWND	 Ø 40 Push Turn Lock (AJN3, AJD3) Ø40, height 18.5 	AS resin	AJN3B-*	AJN3B-*	1	B (black), G (green), R (red), Y (yellow)	Ordering Part No. Development
Button for Illuminated Pushbuttons	① Extended		ALN2L-*	ALN2L-*PN05	0.	R (red), G (green), S (blue)	TWN Series
	(ALN2, ALD2) ø24, height 18.5	AS resin	ALN2LD-*	ALN2LD-*PN05	30	Y (yellow), A (amber), W (white) Specify W for PW (pure white) illumination.	TWND Series Diecast Zinc
C For TWN/TWND	② Ø40 Pushlock turn reset (AVLN3, AVLD3) Ø40, height 18.5	Ad realin	AVLN3L-R	AVLN3L-RPN02	2	R (red) only	
Selector Operator	① Knob operator ø25, height 20.5		ASNHT-*	ASNHT-*PN02	2	B (black), G (green), R (red)	
	 ② Lever operator ø25, height 20.5, length 37.5 	Polyacetal	ASNHL-*	ASNHL-*PN02	2	D (black), C (green), N (red)	
3	③ Color insert Width 21, depth 5, height 18		TW-HC1*	TW-HC1*PN05	5	B (black), G (green), R (red), Y (yellow), S (blue), W (white)	Accessories Accessories
	④ Knob for illuminated selector switch	AS resin	ASLNH-*	ASLNH-*	1	G (green), R (red), S (blue)	Part No. Comparison
For TWN/TWND	(ASLN, ASLD) ø25, height 28	ASTESII	ASLNHD-*	ASLNHD-*	1	A (amber), W (white), Y (yellow)	
Lens for Pilot Lights	① Round (APN1, APD1) ø24.6, height 28, M20 For TWN/TWND		APN106LN-*	APN106LN-*PN05	5	R (red), G (green), Y (yellow) A (amber), W (white), S (blue) Specify W for PW (pure white) illumination.	
2	© Rectangular (UPQN4) Width 36, depth 30, height 8.5		UPQN406L-*	UPQN406L-*PN05	- 5	R (red), G (green), C (clear), S (blue) Specify W for PW (pure white) illumination.	
	For TWN	AS resin	UPQN406LD-*	UPQN406LD-*PN05		Y (yellow), A (amber)	
3	③ Square extended (UPQN3B)		ULQN06L-*	ULQN06L-*PN05		R (red), G (green), S (blue)	
9	25, height 26.5 For TWN		UPQN06LD-*	UPQN06LD-*PN05	5	Y (yellow), A (amber), W (white)	
Marking Plate For TWN	Rectangular pilot lights (UPQN4) Width 29.8, depth 23.8, thickness 2	Acrylic	UPQN406N-W	UPQN406N-WPN05	5	W (white) only See page <mark>50</mark> for engraving are.	

Maintenance Parts

	Shape	Material	Part No.	Ordering No.	Package Quantity	Remarks
	Rubber Washer (1.5 mm-thick)	Rubber (synthetic soft vinyl) ø39/ø29.5, height 1.5	0W-11	OW-11PN10	10	• To tighten mounting panels
Selection Guide	Rubber Washer (3.0 mm-thick)	Rubber (synthetic soft vinyl) ø39/ø29.5, height 3	0W-12	OW-12PN10	10	• To tighten mounting panels
Ratings/ Specifications LED Ratings	fications ①	① Half shroud ø35/ø27, height 20.5	ABN2G	ABN2G	1	• With nut ring (ø35, height 4)
Specifications Degree of Protection Ordering	2 🔊	② Full shroud ø35/ø28.5, height 16.5	ABN2F	ABN2F	1	
Part No. Development TWN Series	ª	 ③ Full shroud (for mushroom pushbuttons) ø48, height 20 	ABN3G	ABN3G	1	
TWND Series Diecast Zinc	s Contraction	 ④ Shallow shroud (for jumbo mushroom) ø75, height 18 	ABN4G	ABN4G	1	
	For TWN/TWND	© Deep shroud (for jumbo mushroom) ø75/ø69, height 33	ABN4F	ABN4F	1	
	Shroud for Illuminated Pushbuttons	① Half shroud (For BA9S base) ø35/ø27, height 25	ALN2GL	ALN2GL	1	• With nut ring (ø35, height 4)
Accessories Accessories	©	 Full shroud (For BA9S base) ø35/ø29.5, height 22.5 	ALN2FL	ALN2FL	1	• With nut ring (ø35, height 4)
Part No. Comparison	Spare Key For Key Selector Switches For TWN/TWND	Metal Nickel plated brass Length 3, width 19.7, thickness 1.8	TW-SK-0	TW-SK-0PN02	2	● ASN□K□N ASD□K□N
	Spare Key For Key Selector Switches For TWN	Metal Nickel plated brass Length 37.5, thickness 2	ASN- SK-24401	ASN-SK-24401PN02	2	● ASN□K□-N024401
	Pin/Chain Kit For ABD8P	Pin: Nickel plated brass	ABD8P-PIN	ABD8P-PIN	1	 Pin, chain, and plate for ABN8P Pin (ø4.6)
	Contact Block Plug	Polyamide	HW9Z-CBPL	HW9Z-CBPLPN10	10	Used to plug the hole in the center of a contact block.

Maintenance Parts

All dimensions in mm.

Shape	Description	Part No.	Ordering No.	Package Quantity	Remarks	
Contact block	NO contact	HW-U10	HW-U10	4	Housing color: Blue Push rod color: Green	
HW-U		HW-U10-MAU	HW-U10-MAU	1	MAU has gold contacts	
	NC contact	HW-U01	HW-U01	1	Housing color: Reddish purple Push rod color: Red	
	NC contact	HW-U01-MAU	HW-U01-MAU	I	MAU has gold contacts	
	EM contact	HW-U10R	HW-U10R	1	Housing color: Blue Push rod color: Black	
	(early make)	HW-U10R-MAU	HW-U10R-MAU	I	MAU has gold contacts	
	LB contact	HW-U01R	HW-U01R	4	Housing color: Reddish purple	
For TWN/TWND, 11g approx.	(late break)	HW-U01R-MAU	HW-U01R-MAU	1	Push rod color: White MAU has gold contacts	Selection Guide
Dummy Block					For HW-U contact blocks	Ratings/ Specifications
	Polyamide	HW-DB	HW-DBPN10	10	Used when the number of contact blocks and full voltage adapters is 1 or 2	LED Ratings
For TWN/TWND 3.5g approx.					and full voltage adapters is 1 or 3.	Specifications
Full Voltage Adapter For Illuminated Switches (*1)					 Applicable model: Illuminated pushbuttons 	Degree of Protection
	Polyamide	HW-GA1N	HW-GA1NPN02	2	Illuminated selector switches • Applicable load (LED lamp)	Ordering
For TWN/TWND	-				LSTD-6 (6V AC/DC)	Part No.
12g approx.					LSTD-1 (12V AC/DC) LSTD-2 (24V AC/DC)	Development
Transformer Unit For Illuminated Switches (*1)	100/110V AC	HW-T16	HW-T16	- av	Applicable model: Illuminated pushbuttons	
					Illuminated selector switches	TWN Series
For TWN/TWND 66g approx.	200/220V AC	HW-T26	HW-T26	26	Applicable load (LED lamp) LSTD-6 (6V AC/DC)	TWND Series Diecast Zinc
Transformer Unit For Pilot Lights (*1)	100/110V AC	TWR-016B	TWR-016B	1	 Mounting screws are not included. See page 51 for mounting screws. 	_
For TWN/TWND 69g approx.	200/220V AC	TWR-026B	TWR-026B	1	Applicable load (LED lamp) LSTD-6 (6V AC/DC)	

*1) For use as maintenance parts. Do not use for expansion or remodelling purposes.

LED Lamps (Use LED lamps for replacing incandescent lamps)

Model	Operating	Current Draw		Dort No.	Ordering No.	Color Code	Package	Base
Model	Voltage	DC	DC	DC Part No.		Color Code	Quantity	Dase
LSTD	6V AC/DC	7mA (R, A, W)	8mA		LSTD-6*		1	
	6V AC/DC	5.5mA (G, S, PW)	OIIIA	LSTD-6*	LSTD-6*PN10		10]
	12V AC/DC	10mA	11mA	LSTD-1*	LSTD-1*	R, G, A, W, S, PW	1	BA9S
1	12V AG/DC	TOTIA	THIA	LSID-I*	LSTD-1*PN10	R, G, A, W, S, PW	10	/13
	24V AC/DC	C/DC 10mA 11mA LSTD	A 11mA LSTD-2*		LSTD-2*		1	
	24V AC/DC	TOTTA	TIIIA	LSID-2*	LSTD-2*PN10		10	
LETD	6V AC/DC	14mA (R, A, W)	17mA (R, A, W)	LETD-6*	LETD-6*		1	
	OV AC/DC	5.5mA (G, S, PW)	8mA (G, S, PW)	LEID-0*	LETD-6*PN10		10	
	12V AC/DC	6.5mA	7mA	LETD-8*	LETD-8*	R, G, A, W, S, PW	1	E12
JU.	TZV AC/DC	(10mA: at 15V)	(11mA: at 15V)	LEID-0*	LETD-8*PN10	R, G, A, W, S, PW	10	/15
		10mA	11mA	LETD-2*	LETD-2*		1]
24V AC/DC		TUIIIA	TINA	LEID-Z*	LETD-2*PN10		10	

• Specify a color code in place of * in Part No. R (red), G (green), A (amber), W (white), S (blue), PW (pure white)

• Use a PW (pure white) LED for Y (yellow) illumination.

LED lamps for replacing incandescent lamps

Incandescent Lamp					
Model (mm) Part No.		Operating Voltage	Lamp Rating	Base	
LS	LS-6	6V AC/DC	1W (6V)		
10	LS-8	12V AC/DC	1W (18V)	BA9S	
Bulb: Ø11	LS-2	18V AC/DC	1W (24V)	/13	
Length: 23	LS-3	24V AC/DC	1W (30V)		
LE	LE-6	6V AC/DC	2W (6V)		
	LE-8	12V AC/DC	2W (18V)	E12	
Bulb: Ø13	LE-2	18V AC/DC	2W (24V)	/15	
Length: 34	LE-3	24V AC/DC	2W (30V)		

	Replacement LED Lamp					
Part No.	Color Code	Operating Voltage	Base			
LSTD-6*		6V AC/DC				
LSTD-1*	R, G, A, W,	12V AC/DC	BA9S			
LSTD-2*	S, PW	24V AC/DC	/13			
LSTD-2*		24V AC/DC				
LETD-6*		6V AC/DC				
LETD-8*	R, G, A, W,	12V AC/DC	E12			
LETD-2*	S, PW	24V AC/DC	/15			
LETD-2*		24V AC/DC				

- When using a commercially available incandescent lamp, choose a lamp with the same dimensions, operating voltage, and base.
- Specify a color code in place of * in Part No.
- R (red), G (green), A (amber), W (white), S (blue), PW (pure white)
- Use a PW (pure white) LED lamp for Y (yellow) illumination.
- For 0 (orange) and C (clear) color code of incandescent lamp, use A (amber) LED lamp.

Transformer

Shape	Operating Voltage	Voltage Range	Part No. (Ordering No.)	Applicable Load
For 6V	100/110V AC	±10%	TWR516	LSTD-6* (6V AC/DC, LED lamp)
	200/220V AC	±10%	TWR526	Specify a color code in place of * in Part No. R (red), G (green), A (amber), W (white), S (blue),
	400/4440V AC	±10%	TWR546	PW (pure white)
For 24V	100/110V AC	±10%	TWR512	LSTD-2* (24V AC/DC, LED lamp)
	200/220V AC	±10%	TWR522	Specify a color code in place of * in Part No. R (red), G (green), A (amber), W (white), S (blue),
	400/4440V AC	±10%	TWR542	PW (pure white)

• Terminal cover (TWR-VL3) is installed on transformers as standard.

Specifications

Part No. Development

Degree of Protection

Ordering

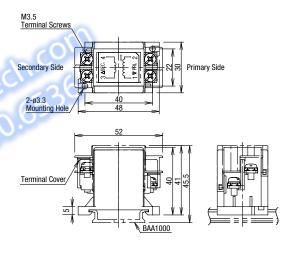
Selection Guide Ratings/ Specifications LED Ratings Specifications

> **TWN Series** TWND Series Diecast Zinc

Part No.	TWR5⊡6	TWR5□2		
Rated Voltage	100/110V AC, 200/220V AC, 400/440V AC (50/60 Hz)			
Current Draw	2.4VA			
Rated Insulation Voltage	600V			
Insulation Resistance	$100M\Omega$ minimum (500V DC	megger)		
Operating Temperature	–30 to 60°C (no freezing)	ATE		
Operating Humidity	35 to 85% RH (no condensation)			
Storage Temperature	-40 to +80°C (no freezing)			
Vibration Resistance	Damage limits: 30 Hz, amplitude 1.5 mm			
	Operating extremes: 5 to 55 Hz, amplitude 0.5 mm			
Shock Resistance	1000 m/s ²			
SHOCK RESISTANCE	100 m/s ²			
Dielectric Strength	2500V AC, 1 minute			
Terminal Screw	M3.5			
Applicable Wire	2 mm² maximum, 2 wires maximum			
Weight	87g			

Dimensions

All dimensions in mm.



Accessories

Accessories Part No.	Shape	Material	Part No.	Ordering No.	Package Quantity	Dimensions (mm)
Comparison	DIN 35 mm Rail Weight: 200g approx.	Aluminum Length: 1000 mm	BAA1000	BAA1000PN10	10	
	DIN 35 mm Rail Weight: 320g approx.	Steel Length: 1000 mm	BAP1000	BAP1000PN10	10	
	End Clip Weight: 15g approx.	Metal (zinc-plated steel) Applicable rail: BAA1000 BAP1000	BNL6	BNL6PN10	10	

48 IDEC

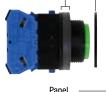
Safety Precautions

- Turn off the power to the TWN/TWND switches & pilot lights before starting installation, removal, wiring, maintenance, and starting installation, removing, wiring, maintenance, and inspection of the products. Failure to turn power off may cause lectrical shocks or fire hazard.
- To avoid a burn on your hand, use the lamp holder tool when replacing lamps.
- . For wiring, use wires of a proper size to meet the voltage and current requirements. Tighten the terminal screws to the recommended tightening torque (see page 53). Failure to tighten terminal screws may cause overheat and fire.

Operating Instructions

Panel Mounting

- 1. Remove the locking ring from the operator and check that the rubber gasket is in place. For mushroom and jumbo mushroom switches, remove the button before removing the locking ring.
- 2. Adjust the thickness of the rubber washers according to the panel thickness.
- 3. Insert the switch into the panel from the back of the panel.
- 4. On the panel front, install the nameplate and locking ring. For mushroom and
- jumbo mushroom switches, install the button before installing the locking ring. Rubber Gasket





Panel Thickness and Rubber Washer

Adjust the thickness of the rubber washers according to the panel thickness as shown in the tables below. Also, make sure to include the nameplate thickness when using a nameplate.

Applicable Model

TWN/TWND series

Pushbutton

(flush/extended/mushroom/jumbo mushroom) Illuminated pushbutton (extended/mushroom) Pilot light (except for square type)

Panel	Rubber Washer		
Thickness (mm)	1.5 mm-thick	3.0 mm-thick	
Supplied	2 pieces	1	
0.8 to 3.5	2 pieces	1	
3.5 to 5.0	1	1	
5.0 to 6.5	-	1	
6.5 to 7.5	1	-	

TWN/TWND series

Pushbutton (extended with half shroud) Illuminated pushbutton (extended with half shroud)

,					
Panel	Rubber Washer				
Thickness (mm)	1.5 mm-thick	3.0 mm-thick			
Supplied	1	1			
0.8 to 1.8	-	1			
1.8 to 3.5	1	_			

TWN/TWND series

Pushbutton (extended with full shroud)

Panel	Rubber Washer		
Thickness (mm)	1.5 mm-thick	3.0 mm-thick	
Supplied	2 pieces	1	
0.8 to 2.5	2 pieces	1	
2.5 to 4.0	1	1	
4.0 to 5.5	-	1	
5.5 to 6.0	1	-	

 See page 28 for square pilot lights about installing on the panel and replacing LED lamps. The number of rubber washers shown in the dimensions of TWN/TWND series may differ from the number of rubber washers supplied.

. When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape. Make sure of correct operation before installation. The operation of illuminated pushbutton switches cannot be guaranteed when a commercially available lamp is used.

Notes for Panel Mounting

Locking ring wrench recommended torgue

Tighten the bezel to a tightening torque of 3.0 to 3.5 N·m.

Locking ring wrench

Locking ring wrench (OR-12) can be used to tighten the bezel. Use side B to tighten. Side B: For TWN/TWND series Side A: TWS series



Anti-rotation rings are used on selector switches or pushbuttons which rotate and used when using no nameplates. Insert a 1.5 mm-thick rubber washer between the panel and the antirotation ring as shown on the right.

To install, adjust the panel thickness by taking the thickness of anti-rotation ring (OGL-11) into consideration.



Locking ring wrench (OR-12)

B

١D Rubber Washer

Rubber Washer 1.5 mm-thick

Replacement of LED Lamps

Lamps can be replaced by using the lamp holder tool (OR-55) from the front of the panel. (See page 42 for lamp holder tool.)

How to Remove

To remove, slip the lamp holder tool onto the lamp head lightly. Then push slightly, and turn the lamp holder tool counterclockwise.



Accessories Instructions Part No. Comparison

Selection Guide

Specifications

LED Ratings

Specifications

Degree of

Protection

Orderina Part No. Development

TWN Series

TWND Series

ast Zind

Ratings/

How to Install

To install, insert the lamp head into the lamp holder tool. Place the two pins on the lamp base to the grooves in the lamp socket. Inset the lamp and turn it clockwise.









TWN/TWND series

Illuminated pushbutton (extended w/full shroud) Mushroom with full shroud

Panel	Rubber Washer				
Thickness (mm)	1.5 mm-thick	3.0 mm-thick			
Supplied	2 pieces	1			
0.8 to 3.5	2 pieces	1			
2.0 to 3.5	1	1			
3.5 to 5.0	-	1			
5.0 to 6.0 (6.5)*1	1	-			
*4 (0 D) is factor allower and the line of the full share of					

Pin lock pushbutton

Panel	Rubber Washer				
Thickness (mm)	1.5 mm-thick	3.0 mm-thick			
Supplied	2 pieces	1			
0.8 to 3.0	2 pieces	1			
3.0 to 4.5	1	1			
4.5 to 6.0	-	1			
6.0 to 7.5	1	-			

Panel	Rubber Washer				
Thickness (mm)	1.5 mm-thick	3.0 mm-thick			
Supplied	2 pieces	1			
0.8 to 3.5	2 pieces	1			
3.5 to 5.0	1	1			
5.0 to 6.5	_	1			
6.5 to 7.5	1	-			

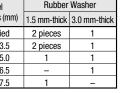
*1: (6.5) is for mushroom pushbuttons with full shroud

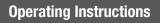
TWND series

Panel	Rubber Washer				
Thickness (mm)	1.5 mm-thick	3.0 mm-thick			
Supplied	2 pieces	1			
0.8 to 3.0	2 pieces	1			
3.0 to 4.5	1	1			
4.5 to 6.0	_	1			
6.0 to 7.5	1	-			

TWN/TWND series

Other models (excluding square)





Installing/Removing the Buttons and Lenses

To install To remove Pushbutton button Flush/Extended Push in the button to

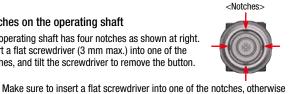
The operating shaft has four notches as shown at right.

Insert a flat screwdriver (3 mm max.) into one of the

Insert a flat screwdriver between the button and the bezel to remove the button (see below for details).

Notches on the operating shaft

the pushbutton may be damaged.



notches, and tilt the screwdriver to remove the button. LED Ratings Specifications Degree of Protection Notes on button removal

Ratings/

Selection Guide

Specifications

install.

To avoid damaging the bezel or the button, remove the bezel from the pushbutton before inserting a flat screwdriver. Orderina

Part No. Development

TWN Series TWND Series

Diecast Zind

Accessories

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Comparison

Part No.

Mushroom/ Jumbo Mushroom Button has threads. Turn clockwise to install the button.



Illuminated Pushbutton Lens

Extended/Mushroom Lens has threads. Turn clockwise to install the lens.



 \wedge

the lens.





A rubber gasket is installed between the lens and operator on pilot lights. Make sure that the rubber gasket is in place when installing the lens.

Marking Plate on Pilot Lights

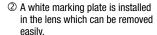
Rectangular Marking Plates (for UPQN4)

Removing

① Insert a flat screwdriver between the lens and bezel, and tilt the screwdriver to remove the lens.



Engraving Area Material: Acrylic resin Size: 29.8 W \times 23.8 D, thickness 2.0 mm Engraving area: $28 \text{ W} \times 22 \text{ D} \times 1.0 \text{ mm}$ height max.



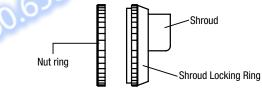


Engraving Area 3 2 28 29.8

Installing the Half Shroud on Extended Pushbuttons/ Illuminated Pushbuttons

Half Shroud Parts

A shroud is installed in the shroud locking ring. Tightening the shroud locking ring in the switch locks the shroud.



Installing the Half Shroud

- ①Adjust the thickness of the rubber washers according to the panel thickness (see page 49).
- ② Insert the switch into the panel from the back of the panel.
- ③ Install the nut ring from the panel front to tighten the switch.
- (Install the half shroud on the upper side of the switch, and tighten the shroud locking ring.
- S Make sure that the shroud is securely fastened inside the shroud locking ring.

Tightening the Half Shroud

Align the three projections on the shroud with the groove on the switch, and tighten the shroud on the upper side of the switch. Tighten the shroud locking rina.

(1) Three projections on the shroud

(2) Grooves on the threads TOP

Grooves on

the threads



(3) Complete

(The shroud is installed in the shroud locking ring.)

· Shrouds may rattle depending on the panel thickness.

(Four grooves on up,

down, right, and left

· A gap may appear between the nut ring and the shroud locking ring depending on the panel thickness.

Pilot Light Lens Round Lens has threads Turn clockwise to install

Operating Instructions

Selector Switches

Turn the operator such as knob, lever, and key to each position accurately. Releasing halfway may cause the operator to return to the former position, or to get stuck between. On spring return two-way types, the center of operators may be misaligned slightly.

Key Selector Switches

Insert the key completely before turning. Failure to do so may cause failures.

Installing the Operator on Selector Switches

① Install the switch with TOP marking facing upward, so that the operator can be installed on the switch in the correct direction.



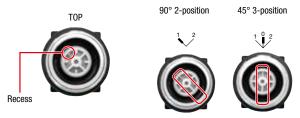
Color Insert

- ② On non-illuminated models, install the color insert in the middle of operator. The color insert also serves to retain the operator.
- ③ On illuminated models, align the operator with the switch by confirming the TOP marking on the switch and also the switch operation. Then press in the operator into the switch.

Contraction of the second seco

Installation of Selector Operators

The shaft of each non-illuminated selector switch has a recess to identify in which direction to install the operator. Align the operator with the recess and press in the operator. Press a color insert (non-illuminated) into the operator (illuminated selector switches do not have a recess on the shaft).



The non-illuminated operators can be installed in positions other than the standard position shown above.



Standard positions

Removal

Removing the Operator from Selector Switches



Insert a flat screwdriver into the recess under the color insert. Turn the screwdriver to push out the insert from the operator.

Pull out the operator sideways as shown in the left photo to remove the operator.

Removing the Operator from Illuminated Selector Switches



① Insert a flat screwdriver (4 to 5 mm) into the recess at right or left under the operator and tilt. The operator is displaced slightly.

Insert the flat screwdriver into the other recess and tilt. The operator can be removed.

Removing the Contact Blocks/Full Voltage Adapters

Insert a flat screwdriver (4 to 6 mm) into the snap-fit latches of the contact block or full voltage adapter and lift to remove.



- Make sure to lift both latches. Contact
- Make sure to lift both latches. Contact blocks cannot be removed by lifting one latch only.
- Do not apply excessive force to the latches, otherwise damage maybe caused.

Transformer Units and DC-DC Converters

Insert the end of the contact block removal tool (TW-KC1) into the snap-fit latch of the transformer units or DC-DC converter and pull the tool forward. The contact block removable tool cannot be used to remove the HW-U contact blocks or full voltage adapters.



When replacing parts (contact block, dummy block, full voltage adapter, transformer) for maintenance, make sure to install the parts to the original position. Otherwise proper operation cannot be guaranteed.

Transformer Units and DC-DC Converters for Pilot Lights

Unfasten the two mounting screws on the back to remove the transformer unit/ DC-DC converter.



Mounting screws APN: M3 \times 6 (screw diameter ø5.5 or below) APD: M3.5 \times 6 (screw diameter ø5.5 or below)

Accessories Instructions Part No. Comparison

Selection Guide

Ratings/ Specifications

LED Ratings

Specifications

Degree of Protection

Ordering

Part No. Development

TWN Series

TWND Series Diecast Zinc

Operating Instructions

Applicable Wiring

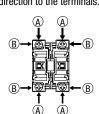
(1) Contact Block 0.3 to 3.5 mm² (solid wire 0.5 to 2.0 mm)

Pushbutton/illuminated pushbutton/selector switch/ illuminated selector switch/selector pushbutton

(A) and (B) show the wiring direction to the terminals.

<Contact Block>

Terminal screws M3.5 (spring-up)



Applicable Crimping Terminal

Be sure to use an insulation tube or cover on the crimping part of the crimping terminal to prevent electrical shocks. Crimping terminal for $\widehat{(A)}$

3.6 min.



Part No. Development

TWN Series TWND Series Diecast Zine

Selection Guide

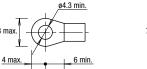
Specifications

LED Ratings

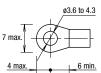
Specifications

Ratings/

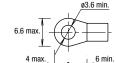
Orderina 8 max



IP20 crimping terminal



Crimping terminal for B IP20 crimping terminal



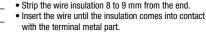
Solid wire



Part No. Comparison

Accessories

Instructions



(1)-1 IP20 Degree of Protection

The terminal of HW-U contact block has IP20 degree of protection. When IP20 is required for wiring, observe the followings

Make sure to insert the crimping terminal or wire to the terminal straight and fully. When using a crimping terminal

Use IP20 crimping terminals.

When using a solid wire

Strip the wire insulation 8 to 9 mm from the end and insert the wire to the terminal fully.

When using a stranded wire

Strip the wire insulation 8 to 9 mm from the end and insert the wire to the terminal fully. Make sure that the wires are not loosened.

(2) Power Unit

0.3 to 2 mm² (solid wire 0.5 to 1.6 mm)

Illuminated pushbutton/illuminated selector switch

 $\textcircled{\sc B}$ and $\textcircled{\sc B}$ show the wiring direction to the terminals. <Full Voltage Adapter>

Terminal screws M3.5

(spring-up)

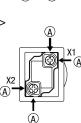


<Transformer Unit> 100/110V AC, 200/220V (240V AC or below) Terminal screws M3.5 (spring-up)



<DC-DC Conver Unit/Transformer Unit> 110V DC. 380V

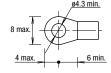
Terminal screws M3.5 (spring-up)



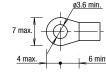
Applicable Crimping Terminal

Be sure to use an insulation tube or cover on the crimping part of the crimping terminal to prevent electrical shocks.

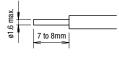
Crimping terminal for A



Crimping terminal for (B)



Solid wire



 Strip the wire insulation 7 to 8 mm from the end.

- Insert the wire until the insulation comes into contact with the terminal metal part.
- Terminal cover is integrated in the full voltage adapter and transformer unit. Note that the connection terminal is not IP20.



Operating Instructions

(3) Pilot Light

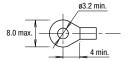
0.3 to 2 mm² (solid wire 0.5 to 1.6 mm)

Applicable crimping terminal

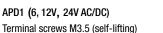
Be sure to use an insulation tube or cover on the crimping part of the crimping terminal to prevent electrical shocks.

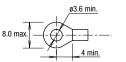
APN1, UPQN3B, UPQN4 (6, 12, 24V AC/DC)

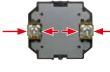
Terminal screws M3 (self-lifting)



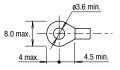
(Arrows show the wiring direction)







APN1, UPQN3B, UPQN4, APD1 (100 to 480V AC or below, 110V DC) Terminal screws M3.5 (self-lifting)





- . Install the terminal cover supplied with the pilot light. The connection terminal is not IP20.
- · When selecting mounting centers and crimping terminals, take sufficient insulation distance into consideration.

Cautions for Wiring

About using DC-DC Converter Unit

1. Note the polarity for wiring when connecting to the DC-DC converter.

Terminal No.	Polarity
X1	Positive
X2	Negative

2. Incandescent lamps cannot be used in DC-DC converter unit.

3. DC-DC converters are equipped with an electric circuit and noise may be heard inside the unit, which does not affect the performance of DC-DC converters.

Recommended Tightening Torque Number of Wires

	Unit		Wire	Number of Wires	Recommended Tightening Torque (Nm)	Terminal Screw
		Crim	oing Terminal	2	1.0 to 1.3	
	HW-U Contact Block	Solid	ø0.5 to 1.6 mm (AWG14 to 22)	2	1.0 to 1.3	M3.5
		Wire	ø1.7 to 2.0 mm (AWG12)	1	1.2 to 1.3	
		Stranded Wire	0.3 to 2.0 mm ² (AWG14 to 22)	2	1.0 to 1.3	
			2.1 to 3.5 mm ² (AWG12)	1	1.2 to 1.3	
		Crim	oing Terminal			
	Illuminated Unit (*1)	Solid Wire	ø0.5 to 1.6 mm (AWG14 to 22)	2	1.0 to 1.3	M3.5
		Stranded Wire	0.3 to 2.0 mm ² (AWG14 to 22)			
1		Crimping Terminal				
	Pilot Light	Solid Wire	ø0.5 to 1.6 mm (AWG14 to 22)	2	0.6 to 1.0 (M3.0)
		Stranded Wire	0.3 to 2.0 mm ² (AWG14 to 22)		1.0 to 1.3 (M3.5)

Selection Guide Ratings/ Specifications LED Ratings

Specifications Degree of Protection

Orderina

Part No. Development

TWN Series TWND Series Diecast Zinc

*1) Lamp terminal of illuminated pushbuttons and illuminated selector switches

ø30 Switches & Pilot Lights

See our website for other ø30 switches & pilot lights.

ø30 HN2P Square Pilot Lights



- LED illuminated square pilot lights with □40 mm
- flange and ø30 mm mounting hole.
- Collecting mounting is possible with 40 mm mounting centers (left, right, top, and bottom).

ARN/ARNS Series Mono-lever Switches



• Single lever offers up to four directions of control. Available with interlock mechanism to prevent inadvertent actuation.

CS Series Cam Switches



- · Wide variety of heavy-duty oiltight cam switches.
- · Available up to 6 layers and 12 contacts.
- · Six types of operators including handles and key.

AC/UC Series Cam Switches



- 71 types of standard circuits.
- · Metal shaft allows for up to 10 layers and 20 contacts
- · Available with interlock mechanism.

ø30 XN Emergency Stop Switches (Pushlock Pull/Turn Reset)



- · Compliant with standards required for emergency stop switches.
- · Padlockable model can be locked using padlocks when latched.
- IDEC's unique Safety Break Action and reverse energy structure.

ø30 HN1E Emergency Stop Switches (Pushlock Turn Reset)



- · Compliant with standards required for emergency stop switches.
- Unibody construction.
- 53 IDEC

- Part No. Comparison

Accessories

ø30 Selector Switches/Pushbuttons Part No. Comparison

	Model	Old Series Operator	S Old Part No.	New Part No. (*3)	Remarks	
	Model	oporator	ASN310	ASN210N		
			ASN311	ASN211N		
			ASN320	ASN220N		
			ASN322	ASN222N ASN22RN-118		
			ASN37S ASN410	ASN2110N		
			ASN411	ASN2111N		
			ASN420	ASN2120N		
			ASN422	ASN2122N		
		90°	ASN47S	ASN212RN-118		
		2-position	ASN3010	ASN201N	(*2)	
			ASN3011	ASN211N	(*1)	
			ASN3020	ASN202N	(*2)	
lection Guide			ASN3022	ASN222N	(*1)	
			ASN307S	ASN22RN-118	(*1)	
Ratings/ Specifications			ASN4010	ASN2210N		
			ASN4011	ASN2211N		
LED Ratings			ASN4020	ASN2220N		
nonifications	ASN		ASN4022 ASN407S	ASN2222N ASN222RN-168		
Specifications	Knob		ASN4073 ASN111	ASN320N	(*2)	
Degree of	Operator		ASN112	ASN340N	(*2)	
Protection			ASN122 ASN15S	ASN322N	(-)	
Ordering			ASN17S	ASN302N	(*1)	
			ASN18S	ASN304N	(*1)	
Part No. Development			ASN211	ASN3220N	(*2)	
borolopiioin			ASN222	ASN3240N	(*2)	
			ASN25S	ASN3222N		
TH/H Order			ASN27S	ASN3202N	(*1)	
TWN Series		45°	ASN28S	ASN3204N	(*1)	
TWND Series		3-position	ASN1011	ASN320N	(*1) (*2)	
Diecast Zinc			ASN1022	ASN340N	(*1) (*2)	
			ASN105S	ASN322N	(*1)	
			ASN107S	ASN302N		
			ASN108S	ASN304N	(*1) (*0)	2
			ASN2011	ASN3120N ASN3140N	(*1) (*2) (*1) (*2)	
			ASN2022 ASN205S	ASN3122N	(*1)	
					(1)	2.3
			ASN207S	ASN3102N ASN3104N		
			ASN208S	ASN3104N		
			ASN208S ASN3L10	ASN3104N ASN2L10N		
			ASN208S	ASN3104N		
			ASN208S ASN3L10 ASN3L11	ASN3104N ASN2L10N ASN2L11N		
			ASN208S ASN3L10 ASN3L11 ASN3L20	ASN3104N ASN2L10N ASN2L11N ASN2L20N		
			ASN208S ASN3L10 ASN3L11 ASN3L20 ASN3L22	ASN3104N ASN2L10N ASN2L11N ASN2L20N ASN2L22N		
Accessories			ASN208S ASN3L10 ASN3L11 ASN3L20 ASN3L22 ASN3L7S ASN4L10 ASN4L11	ASN3104N ASN2L10N ASN2L11N ASN2L20N ASN2L22N ASN2L2RN-118 ASN21L10N ASN21L11N		
			ASN208S ASN3L10 ASN3L11 ASN3L20 ASN3L22 ASN3L7S ASN4L10 ASN4L11 ASN4L20	ASN3104N ASN2L10N ASN2L11N ASN2L20N ASN2L22N ASN2L2RN-118 ASN21L10N ASN21L11N ASN21L20N		
Accessories Instructions			ASN208S ASN3L10 ASN3L11 ASN3L20 ASN3L22 ASN3L7S ASN4L10 ASN4L11 ASN4L20 ASN4L22	ASN3104N ASN2L10N ASN2L11N ASN2L20N ASN2L22N ASN2L2RN-118 ASN21L10N ASN21L10N ASN21L11N ASN21L20N ASN21L22N		
Instructions Part No.		90°	ASN208S ASN3L10 ASN3L11 ASN3L20 ASN3L22 ASN3L7S ASN4L10 ASN4L11 ASN4L20 ASN4L22 ASN4L7S	ASN3104N ASN2L10N ASN2L1N ASN2L20N ASN2L22N ASN2L2RN-118 ASN21L10N ASN21L10N ASN21L20N ASN21L22N ASN21L2RN-118		
Instructions		90° 2-position	ASN208S ASN3L10 ASN3L11 ASN3L20 ASN3L22 ASN3L7S ASN4L10 ASN4L10 ASN4L11 ASN4L20 ASN4L22 ASN4L7S ASN30L10	ASN3104N ASN2L10N ASN2L1N ASN2L20N ASN2L22N ASN2L2RN-118 ASN21L10N ASN21L10N ASN21L20N ASN21L22N ASN21L22N ASN21L2RN-118 ASN2L01N	(*2)	
Instructions Part No.			ASN208S ASN3L10 ASN3L11 ASN3L20 ASN3L22 ASN3L7S ASN4L10 ASN4L10 ASN4L10 ASN4L10 ASN4L10 ASN4L11 ASN4L22 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L21 ASN4L21 ASN4L21 ASN30L10 ASN30L11	ASN3104N ASN2L10N ASN2L11N ASN2L20N ASN2L22N ASN2L2RN-118 ASN21L10N ASN21L10N ASN21L20N ASN21L22N ASN21L22N ASN21L2RN-118 ASN2L01N ASN2L11N	(*1)	
Instructions Part No.	ASN-L		ASN208S ASN3L10 ASN3L11 ASN3L20 ASN3L22 ASN3L7S ASN4L10 ASN4L10 ASN4L10 ASN4L10 ASN4L10 ASN4L10 ASN4L10 ASN4L10 ASN4L11 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L21 ASN4L22 ASN4L7S ASN30L10 ASN30L20	ASN3104N ASN2L10N ASN2L1N ASN2L20N ASN2L22N ASN2L2RN-118 ASN21L10N ASN21L10N ASN21L20N ASN21L22N ASN21L22N ASN21L2RN-118 ASN2L01N ASN2L02N	(*1) (*2)	
Instructions Part No.	Lever		ASN208S ASN3L10 ASN3L11 ASN3L20 ASN3L22 ASN3L7S ASN4L10 ASN4L10 ASN4L10 ASN4L10 ASN4L10 ASN4L11 ASN4L22 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN30L10 ASN30L20 ASN30L22	ASN3104N ASN2L10N ASN2L11N ASN2L20N ASN2L22N ASN2L22N ASN2L2RN-118 ASN21L10N ASN21L10N ASN21L20N ASN21L22N ASN21L22N ASN2L11N ASN2L01N ASN2L02N ASN2L22N	(*1) (*2) (*1)	
Instructions Part No.			ASN208S ASN3L10 ASN3L10 ASN3L10 ASN3L10 ASN3L10 ASN3L10 ASN3L11 ASN3L20 ASN3L20 ASN3L22 ASN3L23 ASN4L10 ASN4L10 ASN4L11 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN30L10 ASN30L10 ASN30L20 ASN30L22 ASN30L7S	ASN3104N ASN2L10N ASN2L11N ASN2L20N ASN2L22N ASN2L2RN-118 ASN21L10N ASN21L10N ASN21L20N ASN21L22N ASN21L22N ASN2L01N ASN2L01N ASN2L01N ASN2L02N ASN2L22N ASN2L22N ASN2L22N	(*1) (*2)	
Instructions Part No.	Lever		ASN208S ASN3L10 ASN3L11 ASN3L20 ASN3L22 ASN3L7S ASN4L10 ASN4L11 ASN4L20 ASN4L22 ASN4L22 ASN4L22 ASN4L7S ASN30L10 ASN30L10 ASN30L20 ASN30L22 ASN30L7S ASN40L10	ASN3104N ASN2L10N ASN2L11N ASN2L20N ASN2L22N ASN2L2RN-118 ASN21L10N ASN21L10N ASN21L20N ASN21L22N ASN21L22N ASN2L01N ASN2L01N ASN2L02N ASN2L02N ASN2L22N ASN2L22N ASN2L22N ASN2L22N ASN2L22N	(*1) (*2) (*1)	
Instructions Part No.	Lever		ASN208S ASN3L10 ASN3L10 ASN3L10 ASN3L10 ASN3L10 ASN3L10 ASN3L11 ASN3L20 ASN3L20 ASN3L22 ASN3L23 ASN4L10 ASN4L10 ASN4L11 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN30L10 ASN30L10 ASN30L20 ASN30L22 ASN30L7S	ASN3104N ASN2L10N ASN2L11N ASN2L20N ASN2L22N ASN2L2RN-118 ASN21L10N ASN21L10N ASN21L20N ASN21L22N ASN21L22N ASN2L01N ASN2L01N ASN2L01N ASN2L02N ASN2L22N ASN2L22N ASN2L22N	(*1) (*2) (*1)	
Instructions Part No.	Lever		ASN208S ASN3L10 ASN3L10 ASN3L10 ASN3L11 ASN3L20 ASN3L20 ASN3L22 ASN3L22 ASN3L7S ASN4L10 ASN4L10 ASN4L10 ASN4L11 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L7S ASN30L10 ASN30L10 ASN30L20 ASN30L22 ASN30L7S ASN40L10 ASN40L11	ASN3104N ASN2L10N ASN2L11N ASN2L20N ASN2L22N ASN2L2RN-118 ASN21L10N ASN21L10N ASN21L20N ASN21L22N ASN21L22N ASN21L2RN-118 ASN2L01N ASN2L02N ASN2L02N ASN2L22N ASN2L22N ASN2L22N ASN2L22N ASN2L22N ASN2L210N ASN22L11N	(*1) (*2) (*1)	
Instructions Part No.	Lever		ASN208S ASN3L10 ASN3L10 ASN3L11 ASN3L20 ASN3L20 ASN3L22 ASN3L7S ASN4L10 ASN4L10 ASN4L22 ASN4L10 ASN4L10 ASN4L10 ASN4L11 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN30L10 ASN30L10 ASN30L20 ASN30L20 ASN30L10 ASN40L10 ASN40L10 ASN40L10	ASN3104N ASN2L10N ASN2L11N ASN2L20N ASN2L22N ASN2L2RN-118 ASN21L10N ASN21L10N ASN21L20N ASN21L20N ASN21L2RN-118 ASN2L01N ASN2L02N ASN2L02N ASN2L22N ASN2L22N ASN2L22N ASN2L22N ASN2L22N ASN2L22N ASN2L22N ASN2L22N	(*1) (*2) (*1)	
Instructions Part No.	Lever		ASN208S ASN3L10 ASN3L10 ASN3L10 ASN3L11 ASN3L20 ASN3L22 ASN3L22 ASN3L22 ASN3L22 ASN3L22 ASN4110 ASN4L10 ASN4L10 ASN4L11 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN30L10 ASN30L10 ASN30L20 ASN30L20 ASN30L20 ASN40L10 ASN40L10 ASN40L20 ASN40L20	ASN3104N ASN2L10N ASN2L11N ASN2L20N ASN2L22N ASN2L2RN-118 ASN21L10N ASN21L10N ASN21L10N ASN21L20N ASN21L22N ASN21L2RN-118 ASN2L01N ASN2L02N ASN2L02N ASN2L22N ASN2L22N ASN2L22N ASN2L22N ASN2L22N ASN2L22N ASN22L10N ASN22L10N ASN22L11N ASN22L10N	(*1) (*2) (*1)	
Instructions Part No.	Lever		ASN208S ASN3L10 ASN3L10 ASN3L10 ASN3L11 ASN3L10 ASN3L10 ASN3L11 ASN3L20 ASN3L22 ASN3L22 ASN3L7S ASN4L10 ASN4L10 ASN4L10 ASN4L20 ASN4L20 ASN4L20 ASN30L10 ASN30L10 ASN30L20 ASN30L20 ASN40L10 ASN40L10 ASN40L10 ASN40L10 ASN40L20 ASN40L20	ASN3104N ASN2L10N ASN2L11N ASN2L20N ASN2L22N ASN2L2RN-118 ASN21L10N ASN21L10N ASN21L20N ASN21L20N ASN21L2N ASN21L2RN-118 ASN2L01N ASN2L02N ASN2L22N ASN2L22N ASN2L22N ASN22L11N ASN22L10N ASN22L11N ASN22L10N ASN22L2N-118	(*1) (*2) (*1) (*1)	
Instructions Part No.	Lever		ASN208S ASN3L10 ASN3L10 ASN3L10 ASN3L11 ASN3L12 ASN3L22 ASN3L22 ASN3L7S ASN4L10 ASN4L10 ASN4L22 ASN4L11 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN30L10 ASN30L10 ASN30L20 ASN30L20 ASN40L10 ASN40L10 ASN40L10 ASN40L10 ASN40L10 ASN40L11 ASN40L12 ASN40L13	ASN3104N ASN2L10N ASN2L11N ASN2L20N ASN2L22N ASN2L2RN-118 ASN21L10N ASN21L10N ASN21L20N ASN21L20N ASN21L22N ASN21L2RN-118 ASN2L01N ASN2L2N ASN2L22N ASN2L22N ASN2L22N ASN2L22N ASN22L20N ASN22L20N ASN22L22N ASN22L22N ASN22L22N ASN22L22N	(*1) (*2) (*1) (*1) (*1) (*2) (*2)	
Instructions Part No.	Lever	2-position	ASN208S ASN3L10 ASN3L10 ASN3L10 ASN3L11 ASN3L10 ASN3L11 ASN3L10 ASN3L11 ASN3L20 ASN3L22 ASN3L22 ASN3L7S ASN4L10 ASN4L10 ASN4L10 ASN4L10 ASN4L20 ASN4L20 ASN30L10 ASN30L10 ASN30L20 ASN30L20 ASN30L20 ASN40L10 ASN40L10 ASN40L10 ASN40L10 ASN40L20 ASN40L20 ASN40L22 ASN40L7S ASN111 ASN1L22 ASN1L25 ASN1L7S	ASN3104N ASN2L10N ASN2L10N ASN2L20N ASN2L22N ASN2L2RN-118 ASN21L1N ASN2L2RN-118 ASN21L2N ASN21L1N ASN21L2N ASN21L2N ASN21L2N ASN21L2N ASN21L2N ASN21L2N ASN21L2N ASN21L2N ASN211N ASN2L2N ASN3L40N ASN3L02N	(*1) (*2) (*1) (*1) (*1) (*2) (*2) (*1)	
Instructions Part No.	Lever	2-position	ASN208S ASN3L10 ASN3L10 ASN3L10 ASN3L10 ASN3L10 ASN3L10 ASN3L10 ASN3L11 ASN3L20 ASN3L22 ASN3L22 ASN3L7S ASN4L10 ASN4L10 ASN4L20 ASN4L20 ASN4L20 ASN4L20 ASN40L10 ASN30L20 ASN30L20 ASN30L20 ASN30L20 ASN40L10 ASN40L10 ASN40L10 ASN40L20 ASN40L22 ASN40L22 ASN40L7S ASN111 ASN1L22 ASN1L7S ASN1L7S ASN1L7S	ASN3104N ASN2L10N ASN2L10N ASN2L20N ASN2L22N ASN2L2RN-118 ASN21L10N ASN21L2RN-118 ASN21L20N ASN21L20N ASN21L20N ASN21L20N ASN21L20N ASN21L20N ASN21L2RN-118 ASN2L1N ASN2L2N ASN22L10N ASN22L2N ASN22L2N ASN22L2N ASN22L2N ASN22L2N ASN3L20N ASN3L40N ASN3L02N ASN3L04N	(*1) (*2) (*1) (*1) (*1) (*2) (*2) (*1) (*1)	
Instructions Part No.	Lever	2-position	ASN208S ASN3L10 ASN3L10 ASN3L10 ASN3L11 ASN3L10 ASN3L11 ASN3L10 ASN3L11 ASN3L20 ASN3L22 ASN3L22 ASN3L7S ASN4L10 ASN4L10 ASN4L10 ASN4L10 ASN4L20 ASN4L20 ASN30L10 ASN30L10 ASN30L20 ASN30L20 ASN30L20 ASN40L10 ASN40L10 ASN40L10 ASN40L10 ASN40L20 ASN40L20 ASN40L22 ASN40L7S ASN111 ASN1L22 ASN1L25 ASN1L7S	ASN3104N ASN2L10N ASN2L10N ASN2L20N ASN2L22N ASN2L2RN-118 ASN21L1N ASN2L2RN-118 ASN21L2N ASN21L1N ASN21L2N ASN21L2N ASN21L2N ASN21L2N ASN21L2N ASN21L2N ASN21L2N ASN21L2N ASN211N ASN2L2N ASN3L40N ASN3L02N	(*1) (*2) (*1) (*1) (*1) (*2) (*2) (*1)	

	Old Series	3		
Model	Operator	Old Part No.	New Part No. (*3)	Remarks
		ASN2L7S	ASN32L02N	(*1)
		ASN2L8S	ASN32L04N	(*1)
		ASN10L11	ASN3L20N	(*1) (*2)
		ASN10L22	ASN3L40N	(*1) (*2)
ASN-L		ASN10L5S	ASN3L22N	(*1)
Lever	45°	ASN10L7S	ASN3L02N	
Operator	3-position	ASN10L8S	ASN3L04N	(*1) (*0)
		ASN20L11	ASN31L20N ASN31L40N	(*1) (*2)
		ASN20L22 ASN20L5S	ASN31L22N	(*1) (*2) (*1)
		ASN20L33	ASN31L02N	(1)
		ASN20L8S	ASN31L04N	
		ASN3K10	ASN2K10N□-N024401	
		ASN3K11	ASN2K11N□-N024401	
		ASN3K20□	ASN2K20N□-N024401	
		ASN3K22	ASN2K22N - N024401	
		ASN3K7S□	ASN2K2RN□-118-N024401	
		ASN4K10	ASN21K10N-N024401	
		ASN4K11	ASN21K11N-N024401	
		ASN4K20	ASN21K20N-N024401	
		ASN4K22	ASN21K22N-N024401	
	90° 2-position		ASN21K2RN-118-N024401	(*0)
	2-position		ASN2K01N□-N024401 ASN2K11N□-N024401	(*2) (*1)
		ASN30K11	ASN2K1TNN024401 ASN2K02NN024401	(*1)
		ASN30K20	ASN2K02N	(*1)
		ASN30K7S	ASN2K2RN□-118-N024401	(*1)
		ASN40K10	ASN22K10N-N024401	(./
		ASN40K11	ASN22K11N-N024401	
	l.h.	ASN40K20	ASN22K20N-N024401	
		ASN40K22	ASN22K22N-N024401	
ASN-K Key		ASN40K7S	ASN22K2RN-168-N024401	
Selector	6	ASN1K11	ASN3K20N□-N024401	(*2)
	$\Omega \Sigma$	ASN1K22	ASN3K40N - N024401	(*2)
	\mathbf{y}	ASN1K5S	ASN3K22N	(*1) (*2)
			ASN3K02N	(*1) (*2)
		ASN1K8S□ ASN2K11□	ASN3K04N	(*1) (*2)
		ASN2K11	ASN32K20N□-N024401 ASN32K40N□-N024401	(*2) (*2)
		ASN2K22	ASN32K22N -N024401	(*1) (*2)
		ASN2K7S	ASN32K02N□-N024401	(*1) (*2)
	45°	ASN2K8S	ASN32K04N□-N024401	(*1) (*2)
	3-position	ASN10K11	ASN3K20N	(*1) (*2)
		ASN10K22	ASN3K40N□-N024401	(*1) (*2)
		ASN10K5S	ASN3K22N□-N024401	(*1) (*2)
		ASN10K7S	ASN3K02N□-N024401	(*2)
		ASN10K8S	ASN3K04N - N024401	(*2)
		ASN20K11	ASN31K20N□-N024401	(*1) (*2)
		ASN20K22	ASN31K40N	(*1) (*2)
			ASN31K22N -N024401	(*1) (*2)
		ASN20K7S ASN20K8S	ASN31K02N□-N024401 ASN31K04N□-N024401	(*2) (*2)
		ASTN20K03L	ASN211N	(2)
	90°	ASTN3211 ASTN3222	ASN222N	(*1)
	2-position	ASTN3222	ASN2111N	
		ASTN4222	ASN2122N	(*1)
		ASTN1122	ASN322N	
		ASTN1222	ASN322N-311	
		ASTN1340	ASN340N	
ASTN		ASTN1422	ASN322N-209	
Knob Operator		ASTN1520	ASN320N	
Operator	45°	ASTN1540	ASN340N	(*1)
	3-position	ASTN1611	ASN311N-303	
		ASTN1622	ASN322N-310	
		ASTN2122	ASN3222N ASN3222N_311	
		ASTN2222	ASN3222N-311	
		Δςτηρήτο	ASN31220	
		ASTN20122 ASTN20222	ASN3122N ASN3122N-311	

D: Key removable position code. Specify the same code as the old series.
 *1) The location of contacts is different. In application for maintenance purpose, make sure of contact operation before wiring.

*2) Contact operation is same as the old series, but contact type is different.*3) The knob operator is diecast zinc and has new shape. The knob operator can be installed at 45 degrees intervals.

ø30 Selector Switches/Pushbuttons Part No. Comparison

	Old Se	ries	New Part No. (*3)	Remarks
Model	Operator	Old Part No.	New Fait No. (3)	nemarks
		ASTN20422	ASN3122N-209	
		ASTN20520	ASN3120N	(*1)
ASTN	45°	ASTN20540	ASN3140N	(*1)
Knob Operator	3-position	ASTN5120	ASN3320N	
Operator		ASTN5122	ASN3322N	
		ASTN5222	ASN3322N-311	
		ASTN5111	ASN3311N-202	
	90°	ASTN32L11 ASTN32L22	ASN2L11N ASN2L22N	(*1)
	2-position	ASTN32L22 ASTN42L11	ASN2L22N ASN21L11N	(1)
	2 poolion	ASTN42L22	ASN21L22N	(*1)
		ASTN11L22	ASN3L22N	(1)
		ASTN12L22	ASN3L22N-311	
		ASTN13L40	ASN3L40N	
		ASTN14L22	ASN3L22N-209	
		ASTN15L20	ASN3L20N	(*1)
		ASTN15L40	ASN3L40N	(*1)
ASTN∎L		ASTN16L11	ASN3L11N-303	
Lever		ASTN16L22	ASN3L22N-310	
Operator	450	ASTN21L22	ASN32L22N	
	45° 3-position	ASTN22L22	ASN32L22N-311	
	3-position	ASTN201L22	ASN31L22N	
		ASTN202L22	ASN31L22N-311	
		ASTN204L22	ASN31L22N-209	
		ASTN205L20	ASN31L20N	(*1)
		ASTN205L40	ASN31L40N	(*1)
		ASTN51L20	ASN33L20N	
		ASTN51L22	ASN33L22N	
		ASTN52L22	ASN33L22N-311	
		ASTN51L11	ASN33L11N-202	
		ASTN32K11	ASN2K11N	
	90° 2-position	ASTN32K22	ASN2K22N	(*1)
		ASTN42K11	ASN21K11N	
		ASTN42K22	ASN21K22N	(*1)
		ASTN11K22	ASN3K22N	
		ASTN12K22	ASN3K22ND-311	3AU
		ASTN13K40	ASN3K40N	
		ASTN14K22	ASN3K22N -209	(*1)
		ASTN15K20	ASN3K20N	(*1)
			ASN3K40N	(*1)
ASTN I K Key		ASTN16K11	ASN3K11N□-303 ASN3K22N□-310	-
Selector		ASTN10K22	ASN3K22N - 510	
00100101	45°	ASTN21K22	ASN32K22N - 311	
	3-position	ASTN22K22	ASN32K22N - 311	
		ASTN201K22	ASN31K22N -311	
		ASTN202K22	ASN31K22N□-209	
		ASTN204K22	ASN31K20N	(*1)
		ASTN205K40	ASN31K40N	(*1)
		ASTN51K20	ASN33K20N	
		ASTN51K22	ASN33K22N	
		ASTN52K22	ASN33K22N-311	
		ASTN51K11	ASN33K11N-202	
ASN-T Knob Operator		ASN120-T	ASN320N	
		ASN140-T	ASN340N	
	45°	ASN220-T	ASN3220N	
	3-position	ASN240-T	ASN3240N	
		ASN2020-T	ASN3120N	(*1)
		ASN2040-T	ASN3140N	(*1)
		ASN1L20-T	ASN3L20N	
		ASN1L40-T	ASN3L40N	
ASN-T	45°	ASN2L20-T	ASN32L20N	
Lever	3-position	ASN2L40-T	ASN32L40N	
Operator	o poolaon	ASN20L20-T	ASN31L20N	(*1)
operator		THOMEOELO I		

	Old Serie	20		
Model	Operator	Old Part No.	New Part No. (*3)	Remarks
		ASN3K10□-T	ASN2K10N	
		ASN3K11□-T	ASN2K11N	
		ASN3K20□-T	ASN2K20N	
		ASN3K22□-T	ASN2K22N	
		ASN3K7S□-T	ASN2K2RN□-118	
		ASN4K10-T	ASN21K10N	
	90°	ASN4K11-T	ASN21K11N	
	2-position	ASN4K20-T	ASN21K20N	
		ASN4K22-T	ASN21K22N	
		ASN4K7S-T	ASN21K2RN-118	
		ASN40K10-T	ASN22K10N	
		ASN40K11-T	ASN22K11N	
		ASN40K20-T	ASN22K20N	
ASN∎K-T		ASN40K22-T	ASN22K22N ASN22K2RN-168	
Key		ASN40K7S-T		
Selector		ASN1K20 T	ASN3K20N	
		ASN1K40□-T ASN1K5S□-T	ASN3K40N ASN3K22N	
		ASN1K7S□-T	ASN3K02N	(*1)
		ASN1K7SD-T	ASN3K02N	(*1)
		ASN2K20□-T	ASN32K20N	
		ASN2K20⊡-T	ASN32K20N	
	45°	ASN2K40⊡-T	ASN32K22N	+
	3-position	ASN2K55D-T	ASN32K02N	(*1)
		ASN2K7S□-T	ASN32K02N	(*1)
		ASN20K20 -T	ASN31K20N	(*1)
		ASN20K40 -T	ASN31K40N	(*1)
		ASN20K5SD-T	ASN31K22N	(*1)
		ASN20K7SD-T	ASN31K02N	(1)
		ASN20K8SD-T	ASN31K04N	
		ABN6111	ASBN211N-A03	
		ABN6411	ASBN211N-K04	(*2)
204		ABN9111	N/A	(2)
	20	ABN7120	ASBN220N-D01	
Selector	\mathbf{v}	ABN6122	ASBN222N-A08	(*1)
Pushbuttons		ABN6222	ASBN222N-C10	(*1)
Ring		ABN6422	ASBN222N-K15	(*2)
Operator		ABN7122	ASBN222N-D10	(*1)
-		ABN7222	ASBN222N-E10	(*1)
		ABN7322	ASBN222N-F10	(*1)
	90°	ABN9122	N/A	
	2-position	ABN6L111	ASBN211N-A03	(*4)
		ABN6L411	ASBN211N-K04	(*2) (*4)
		ABN9L111	N/A	
Coloctor		ABN6L122	ASBN222N-A08	(*1) (*4)
Selector Pushbuttons		ABN6L222	ASBN222N-C10	(*1) (*4)
Lever		ABN6L422	ASBN222N-K15	(*2) (*4)
Operator		ABN7L122	ASBN222N-D10	(*1) (*4)
		ABN7L222	ASBN222N-E10	(*1) (*4)
		ABN7L322	ASBN222N-F10	(*1) (*4)
		ABN9L122	N/A	
		ABN8P10	ABD8P10N	(*5)
		ABN8P01	ABD8P01N	(*5)
	Pin Lock	ABN8P11	ABD8P11N	(*5)
	FILLOCK	ABN8P20	ABD8P20N	(*5)
		ABN8P02	ABD8P02N	(*5)
		ABN8P22	ABD8P22N	(*5)
		ABN8P10-TK231-1	ABD8PN10N	(*5)
Duchhulter	ONLINE	ABN8P01-TK231-1	ABD8PN01N	(*5)
Pushbuttons	ON Lock	ABN8P11-TK231-1	ABD8PN11N	(*5)
	Type Pin	ABN8P20-TK231-1	ABD8PN20N	(*5)
	Lock	ABN8P02-TK231-1	ABD8PN02N	(*5)
		ABN8P22-TK231-1	ABD8PN22N	(*5)
		ATN2310	AZN310N	
	Mushroom	ATN2311	AZN311N	
	Pull		AZN320N	
	Pull	ATN2320□	ALNOZUN	

 \bullet Specify a color code in place of \ast in Part No. B (black), G (green), R (red), Y (yellow).

D: Key removable position code. Specify the same code as the old series.
 *1) The location of contacts is different. In application for maintenance purpose, make sure of contact operation before wiring.

*2) Contact operation is same as the old series, but contact type is different.

*3) The knob operator is diecast zinc and in new shape. The knob operator can be installed at 45 degrees intervals.

*4) The new knob operator of selector pushbuttons is ring operator.

The old series is lever operator. *5) Button material New series: plastic

Old series: metal

Selection Guide Ratings/ Specifications

LED Ratings

Specifications

Degree of Protection

Ordering

Part No. Development

```
TWN Series
TWND Series
Diecast Zinc
```

```
Accessories
Instructions
```

Part No. Comparison

IDEC 55

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