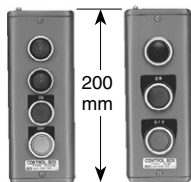# KGNW Series Control Stations

IP40 Enclosed Steel Control Stations Mounting of ø22 mm Switches and Pilot Lights with Space-Saving Design

The KGNW control stations are designed for mounting IDEC ø22 mm (7/8 inch) switches and pilot lights.
• Various standard control stations are available from one to four holes with most widely used combinations of switches and pilot lights (contact configurations, voltage, button colors, and nameplates).
• Enclosures only are also available, in which specifically selected TW series can be mounted as required.

Ideal for small control stations

200 mm

KGNW Control Station with four ø22 mm swiches/pilot lights

KGN Control Station with three ø30 mm switches/pilot lights

• HW series can also be installed.

Specifications

Degree of Protection	IP40 (IEC60529)
Material (Box)	Carbon steel plate (t=1.0mm)
Coating Color (Melamine coating)	Yellow semi-gloss (Munsell 5Y7/1)
Rated Insulation Voltage	600V
Insulation Resistance	5 MΩ minimum
Dielectric Strength	Between live and dead parts: 2500V AC, 1 minute
Standard Operating Conditions	Ambient temperature: –25 to +50°C (no freezing) Relative humidity: 45 to 85% (no condensation)
Enclosure Style	Wall mount (1 holes)
Cable Lead-in (Wall Mount Type)	Double knockouts On top: ø22 and ø27 mm On bottom: ø16 and ø20 mm
Applicable Switches/ Pilot Lights	IDEC ø22 mm TW/HW series

Contact Ratings (Contact Block)

Contact Block	Rated Insulation Voltage	600V
	Rated Thermal Current	10A
	Contact Ratings by Utilization Category IEC60947-5-1	AC-15 (A600) DC-13 (P600)

Operational Voltage and Current by Utilization Category

Operational Voltage			24V	48V	50V	110V	220V	440V
Operational Current	AC (50/60Hz)	AC-12 Control of resistive loads and solid state loads	10A	—	10A	10A	6A	2A
		AC-15 Control of electromagnetic loads (>72VA)	10A	—	7A	5A	3A	1A
	DC	DC-12 Control of resistive loads and solid state loads	8A	4A	—	2.2A	1.1A	—
		DC-13 Control of electromagnets	4A	2A	—	1.1A	0.6A	—

Common

Minimum applicable load (reference value) = 3V AC/DC, 5 mA (the applicable range is subject to change according to the operating conditions)

Rubber Bushing (Supplied) Color: Black

Enclosure Style	Supplied Bushing			Applicable Knockout Hole
	Part No.	Outside Dia.	Inside Dia.	
1 or 2 holes	GB-2	ø30 mm	ø16 mm	ø20 or ø22 mm
3 or 4 holes	GB-3	ø38 mm	ø20 mm	ø27 mm

Switches/Pilot Lights Mounting Holes

The holes for mounting switches and pilot lights are 22.2 mm in diameter with an anti-rotation notch.
Mounting centers are 50 mm on 2- and 3-hole enclosures, and 36 mm on 4-hole enclosures.

Double Knockouts

The top and bottom surfaces have double knockouts.

On top: ø22 and ø27 mm double knockouts
On bottom: ø16 and ø20 mm double knockouts

One rubber bushing is supplied to protect lead-in wires from damage on the wire surface; 1- and 2-hole enclosures are supplied with a bushing to fit ø20 and ø22mm holes, and 3- and 4-hole enclosures with a bushing to fit a ø27 mm hole.

ø22/ø27 mm Double Knockout

Switches/pilot lights

Cover Fastening Screws

Rubber Bushing

ø16/ø20 mm Double Knockout

KGNW Series Control Stations

Control Stations with Switches/Pilot Lights

The control stations are available with selected combination of switches and pilot lights as listed below. For the dimensions and mounting centers, see the figures on page G-7.

Switches/Pilot Lights	Part No.	Specifications
Pushbutton (PB)	ABW110 *	Flush, 1NO
	ABW101 *	Flush, 1NC
	ABW111 *	Flush, 1NO-1NC
	ABW411 *	ø40 mushroom, 1NO-1NC
Pilot Light (PL) (Incandescent)	APW116 *	Round flush, 110V AC
	APW126 *	Round flush, 220V AC
Selector Switch (SS)	ASW211	Knob, 2-position, 1NO-1NC
	ASW320	Knob, 3-position, 2NO
	ASW2K11	Key, 2-position, 1NO-1NC

Note: Specify a button or lens color code in place of ∗:
  Pushbutton: B (black), G (green), R (red)
  Pilot Light: G (green), R (red), W (white)
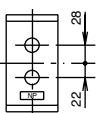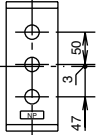
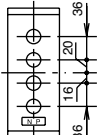## Control Stations

Package Quantity: 1
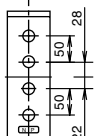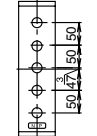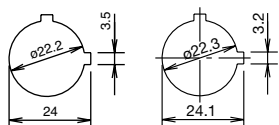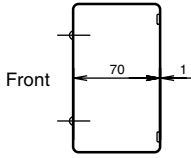
Style	Control Station Part No.	Symbol	Mounted Switches/Pilot Lights Part No.	NWA Nameplate Legend
Wall Mount / 1 hole	KGNW1101Y	PB	ABW110B	ON
	KGNW1102Y	PB	ABW411R	Without nameplate
	KGNW1103Y	PL	APW116R	Without nameplate
	KGNW1104Y	PL	APW126R	Without nameplate
	KGNW1105Y	SS	ASW211	HAND-AUTO
	KGNW1106Y	SS	ASW320	HAND-OFF-AUTO
	KGNW1107Y	SS	ASW2K11	OFF-ON
Wall Mount / 2 holes	KGNW2101Y	PB PB	ABW110B ABW101R	ON OFF
	KGNW2102Y	PB PB	ABW111B ABW111R	ON OFF
	KGNW2103Y	PL PL	APW116R APW116G	Without nameplate
	KGNW2104Y	PL PL	APW126R APW126G	Without nameplate
	KGNW2105Y	PL PB	APW116R ABW111R	Without nameplate STOP
	KGNW2106Y	PL PB	APW126R ABW111R	Without nameplate STOP
	KGNW2107Y	PL SS	APW116R ASW211	Without nameplate HAND-AUTO
	KGNW2108Y	PL SS	APW126R ASW211	Without nameplate HAND-AUTO
	KGNW2109Y	PL SS	APW116R ASW2K11	Without nameplate OFF-ON
	KGNW2110Y	PL SS	APW126R ASW2K11	Without nameplate OFF-ON
	KGNW2113Y	PB PB	ABW110B ABW411R	ON Without nameplate

Style	Control Station Part No.	Symbol	Mounted Switches/Pilot Lights Part No.	NWA Nameplate Legend
Wall Mount / 3 holes	KGNW3102Y	PL PB PB	APW116R ABW110B ABW101R	Without nameplate ON OFF
	KGNW3103Y	PL PB PB	APW126R ABW110B ABW101R	Without nameplate ON OFF
	KGNW3104Y	PB PB SS	ABW111B ABW111R ASW211	ON OFF HAND-AUTO
	KGNW3105Y	PL PL PL	APW116W APW116R APW116G	Without nameplate
Wall Mount / 4 holes	KGNW4101Y	PL PL PB PB	APW126R APW126G ABW111B ABW111R	Without nameplate Without nameplate ON OFF
	KGNW4102Y	PL PB PB SS	APW126R ABW111B ABW111R ASW211	Without nameplate ON OFF HAND-AUTO

IDEC

Empty Enclosures

Package Quantity: 1

Style	Part No.	Unit Mounting Hole	Switches/Pilot Lights Mounting Centers
1 hole (approx. 0.4 kg)	**KGNW111Y**	With	
	KGN110Y	Without	
2 holes (approx. 0.5 kg)	**KGNW212Y**	With	
	KGN210Y	Without	
3 holes (approx. 0.6 kg)	**KGNW313Y**	With	
	KGN310Y	Without	
4 holes (approx. 0.6g)	**KGNW314Y**	With	
4 holes (approx. 0.7 kg)	**KGNW414Y**	With	
	KGN410Y	Without	
5 holes (approx. 0.8 kg)	**KGNW515Y**	With	
	KGN510Y	Without	

Switches/Pilot Lights Mounting Hole

Effective Depth inside the Enclosure

ø22.2 / 24 / 3.5

ø22.3 / 24.1 / 3.2

Front / 70 / 1

All dimension in mm

Accessories

Package Quantity: 1

Name	Part No.	Applicable Enclosure	Applicable Knockout Hole
Rubber Bushing	GB-2	**KGNW111Y**	ø20 or ø22 mm
		KGN110Y	
		KGNW212Y	
		KGN210Y	
	GB-3	**KGNW313Y**	ø27 mm
		KGN310Y	
		KGNW314Y	
		KGNW414Y	
		KGN410Y	
		KGNW515Y	
		KGN510Y	

Dimensions

All dimensions in mm.

KGNW

ø22/ø27 double knockout · 80 · 30max. · 76 · M4 grounding terminal · 60 (Centers) · 6-5 × 8 mounting holes · ø16/ø20 double knockout · 37 · M4 grounding terminal
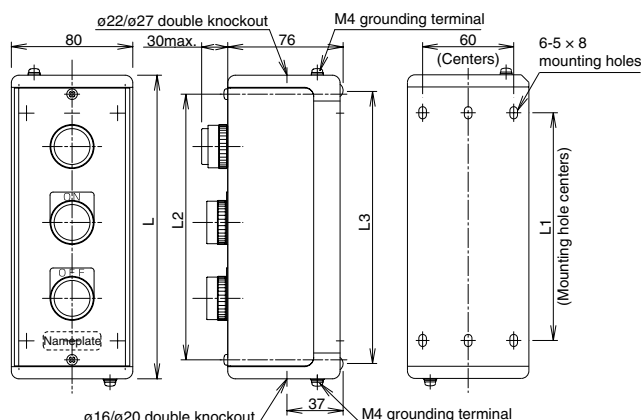
	1 hole	2 holes	3 holes	4 holes		5 holes
	111Y	212Y	313Y	314Y	414Y	510Y
L	100	150	200	200	250	250
L1	50	100	150	150	200	250
L2	75	125	175	175	225	275
L3	80	130	180	180	230	280
Weight (Approx.)	0.4 kg	0.5 kg	0.6 kg	0.6 kg	0.7 kg	0.8 kg

Instructions

Precautions for Opening the Knockout Hole

1. The metal piece for the inner hole of ø22 or ø16 mm knockout has two linked parts to the outer hole. When breaking the knockout to make an inner hole, strike the inner metal piece at the cut parts (the hatched parts shown as point A at right) using a screwdriver tip or similar tool.
2. When opening a larger hole of ø27 or ø20 mm, first make a smaller hole as described above. Then break the knockout for the larger hole using pliers.

Point A
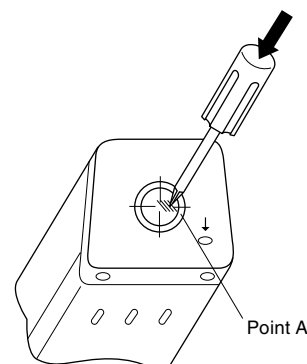
Ordering Information

When ordering control stations with switches/pilot lights:
Specify the Part No. of the control station.

When ordering enclosures without switches/Pilot lights:
Specify the following items.
1. Part No. of the enclosure
2. Part No. and specifications of the switches/pilot lights to be mounted (lens color, button color, etc.)
3. Nameplate
4. Other specifications

Ordering Example

	Part No. of Enclosure	KGNW313Y
① ② ③	Switches/Pilot Lights and Nameplate	① APW126R
		② ABW210G, with NWA-1
		③ ABW201R, with NWA-2

Note: Any ø22 mm TW series are selectable. Take the effective depth inside the enclosure into consideration.