

CATALOG

Annex 1 to Certificate of Conformity IECEx KEM 06.0036X, issue 4

Annex 1 to IECEx Test report NL/KEM/ExTR06.0032/04

Annex 1 to KEMA 02ATEX1090 X, issue 7

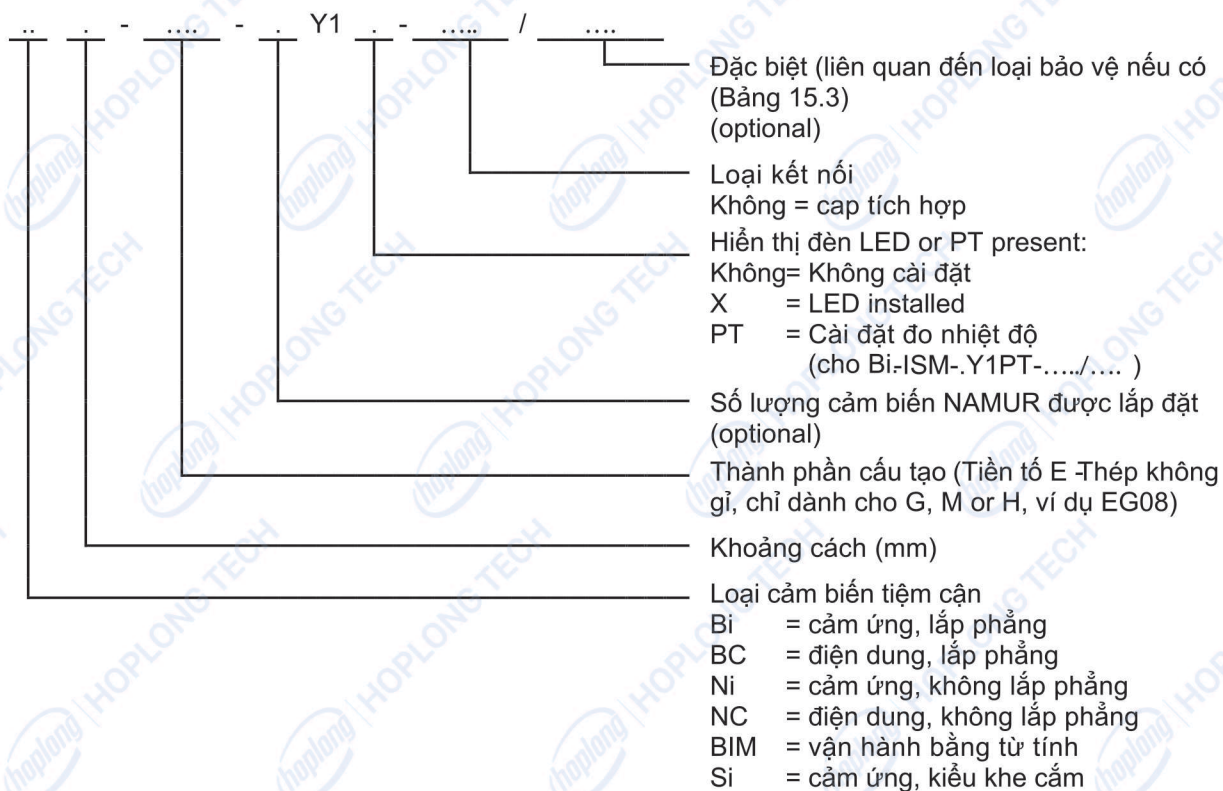


Table 1 Model code breakdown.

Annex 1 to Certificate of Conformity IECEx KEM 06.0036X, issue 3 and IECEx Test report NL/KEM/ExTR06.0032/03

Constructional Variant	Type Group	Constructional Variant	Type Group	Constructional Variant	Type Group	Constructional Variant	Type Group
AKT	A	.G182	A	K11...Y1X..	AX	PST	M
BKT	S	.G19...Y1...	A	K12	A	Q06	M
BKT31A	S	.G19...Y1X..	AX	K14	A	Q08	M
BRY	GD	.G20...Y1...	A	K20...Y1...	A	Q10	A
CA25	G	.G20...Y1X..	AX	K20...Y1X..	AX	Q10S	A
CA40	G	.G28	A	K30	A	Q11	M
CK40	G	.G30...Y1...	A	K33	G	Q11S	A
CP40	G	.G30...Y1X..	AX	K34	G	Q12	A
CP80	G	.G47	G	K40	G	Q14	A
DS13,5	AD	.GS880	M	K90...Y1...	G	Q20	A
DS20	AD	.H04	K	K90...Y1X..	GX	Q25	G
DSC26	MD	.H08	M	.M12...Y1...	A	Q30	G
DSU26	AD	.H12	A	.M12...Y1X..	AX	Q42	G
DSU35	AD	.H6,5	K	M12EE	A	Q5,5	K
FMG	K	H14	A	.M18...Y1...	A	Q6,5	K
FST	M	H6,5-2	K	.M18...Y1X..	AX	Q80	G
.G05	K	HLM	M	.M30...Y1...	A	QF5,5	K
.G08	M	.HS540	K	.M30...Y1X..	AX	QN26	G
.G10	M	.HS865	M	.MP ...Y1...	G	QST	M
.G12...Y1...	A	IKE	A	.MP ...Y1X..	GX	S12...Y1...	A
.G12...Y1X..	AX	IKT	A	NST	M	S12...Y1X..	AX
.G13	A	INT	K	P12...Y1...	A	S18...Y1...	A
.G14...Y1...	A	ISM	A	P12...Y1X..	AX	S18...Y1X..	AX
.G14...Y1X..	AX	K08...Y1...	S	P18...Y1...	A	S30...Y1...	A
.G18...Y1...	A	K08...Y1X..	SX	P18...Y1X..	AX	S30...Y1X..	AX
.G18...Y1X..	AX	K09	S	P30...Y1...	A	T12	A
.G180	A	K10	S	P30...Y1X..	AX	UNT	K
.G181	A	K11...Y1...	A	PSM	M		

Table 15.1 Relation between Constructional Variant and Type Group.

Constructional Variant	Constructional Variant	Constructional Variant	Constructional Variant
DS20	.G30...Y1...	K08	.M18...Y1X..
G05	.G30...Y1X..	K08...Y1...	.M30...Y1...
G08	H14	K08...Y1X..	.M30...Y1X..
.G12...Y1...	.H6,5	K14	Q10S
.G12...Y1X..	H6,5-2	.M12...Y1...	QF5,5
.G18...Y1...	INT	.M12...Y1X..	
.G18...Y1X..	ISM	.M18...Y1...	

Table 15.2 Relation between Constructional Variant and Zone 0.

Zone	Model code	Ambient temperature range
0 and 1	...-...-Y1-... / S80	-25 °C to +80 °C
1	...-...-Y1-... / S85	-25 °C to +85 °C
0 and 1	...-...-Y1-... / S97	-40 °C to +70 °C
1	...-...-Y1-... / S100	-25 °C to +100 °C
0 and 1	...-...-Y1-... / S1280	-55 °C to +70 °C

Table 15.3 Exceptions in ambient temperature range.

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Electrical data

For models BC-.....Y1-..... / and NC-.....Y1-..... / the effective internal inductance L_i as listed in tables 15.5, 15.7, 15.9, 15.11 and 15.13 below does not apply. Instead L_i is negligibly small for these models.

For Dual Sensors, which are in Type Groups AD, GD and MD, the listed electrical data apply per sensor circuit.

For Sensor Models Bi.-ISM-.Y1PT-...../..... the listed values of U_i and I_i apply per sensor circuit and the listed value of P_i applies as a maximum value for both circuits combined.

Type Groups A, AD, G and GD, :

Supply and output signal :

In type of protection intrinsic safety Ex ia IIC or Ex ia IIIC, only for connection to a certified intrinsically safe circuit, with the maximum values shown in table 15.4.

Maximum ambient temperature	Zone	Temperature class	U_i (Vdc)	I_i (mA) (resistively limited)	P_i (mW)
+100 °C	1	T4	20	60	200
+85 °C	1	T5	20	60	200
+80 °C	0 and 1	T5	20	60	200
+70 °C	0 and 1	T6	20	60	200
+70 °C	20	-	20	60	200

Table 15.4 Temperature class and circuit parameters for Type Groups A, AD, G and GD.

The effective internal capacitance C_i and the effective internal inductance L_i can be determined from table 15.5.

Type Group	C_i (nF)	L_i (μH)
A, AD	150	150
G, GD	250	350

Table 15.5 Effective C_i and L_i .

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Type Groups M, MD and S :

Supply and output signal:

In type of protection intrinsic safety Ex ia IIC or Ex ia IIIC, only for connection to a certified intrinsically safe circuit, with the maximum values shown in table 15.6.

Maximum ambient temperature	Zone	Temperature class	U_i (Vdc)	I_i (mA) (resistively limited)	P_i (mW)
+100 °C	1	T4	20	60	200
+80 °C	0 and 1	T4	20	60	200
+85 °C	1	T5	20	60	130
+80 °C	0 and 1	T5	20	60	130
+70 °C	0 and 1	T6	20	60	130
+70 °C	20	-	20	60	130

Table 15.6 Temperature class and circuit parameters for Type Groups M, MD and S.

The effective internal capacitance C_i and the effective internal inductance L_i can be determined from table 15.7.

Type Group	C_i (nF)	L_i (μH)
M, MD	150	150
S	250	350

Table 15.7 Effective C_i and L_i .

Type Group K Typ-Gruppe K:

Supply and output signal :

In type of protection intrinsic safety Ex ia IIC or Ex ia IIIC, only for connection to a certified intrinsically safe circuit, with the maximum values shown in table 15.8.

Maximum ambient temperature	Zone	Temperature class	U_i (Vdc)	I_i (mA) (resistively limited)	P_i (mW)
+100 °C	1	T4	20	60	200
+80 °C	0 and 1	T4	20	60	200
+85 °C	1	T5	20	60	80
+80 °C	0 and 1	T5	20	60	80
+70 °C	0 and 1	T5	20	60	200
+70 °C	0 and 1	T6	20	60	80
+70 °C	250	-	20	60	80
+60 °C	0 and 1	T6	20	60	150
+60 °C	20	-	20	60	150

Table 15.8 Temperature class and circuit parameters for Type Group K.

The effective internal capacitance C_i and the effective internal inductance L_i can be determined from table 15.9.

Type Group	C_i (nF)	L_i (μH)
K	150	150

Table 15.9 Effective C_i and L_i .

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Type Groups AX and GX :

Supply and output signal :

In type of protection intrinsic safety Ex ia IIC or Ex ia IIIC, only for connection to a certified intrinsically safe circuit, with the maximum values shown in table 15.10.

Maximum ambient temperature	Zone	Temperature class	U_i (Vdc)	I_i (mA) (resistively limited)	P_i (mW)
+100 °C	1	T4	20	50	200
+80 °C	0 and 1	T4	20	50	200
+70 °C	0 and 1	T4	20	60	200
+85 °C	1	T5	20	20	200
+80 °C	0 and 1	T5	20	20	200
+70 °C	0 and 1	T5	20	40	200
+70 °C	0 and 1	T6	20	20	200
+70 °C	20	-	20	60	200

Table 15.10 Temperature class and circuit parameters for Type Groups AX and GX.

The effective internal capacitance C_i and the effective internal inductance L_i can be determined from table 15.11.

Type Group Typ-Gruppe	C_i (nF)	L_i (μH)
AX	150	150
GX	250	350

Table 15.11 Effective C_i and L_i .

Type Group SX :

Supply and output signal :

In type of protection intrinsic safety Ex ia IIC or Ex ia IIIC, only for connection to a certified intrinsically safe circuit, with the maximum values shown in table 15.12.

Maximum ambient temperature	Zone	Temperature class	U_i (Vdc)	I_i (mA) (resistively limited)	P_i (mW)
+100 °C	1	T4	20	50	200
+80 °C	0 and 1	T4	20	50	200
+85 °C	1	T5	20	20	130
+80 °C	0 and 1	T5	20	20	130
+70 °C	0 and 1	T6	20	20	130
+70 °C	20	-	20	60	130

Table 15.12 Temperature class and circuit parameters for Type Group SX.

The effective internal capacitance C_i and the effective internal inductance L_i can be determined from table 15.13.

Type Group	C_i (nF)	L_i (μH)
SX	250	350

Table 15.13 Effective C_i and L_i .