



Sensors

Compact models

Amplifiers





Dust / Gas-Ex | Compact model | Zone 0/20

Proximity switches

Gas-Ex Category 1
Ex ma IIC T6 Ga

Dust-Ex Category 1
Ex ma IIIC T90°C Da



Design	DC PNP • M12x1		DC PNP • M18x1		DC PNP • M30x1.5	
Dimensions						
Installation flush (f) non flush (nf)						
Operating distance [mm]	2 f	4 nf	5 f	8 nf	10 f	15 nf
Switching output PNP						
ID-No.	P31379	P31380	P31381	P31382	P31383	P31384
Type	IGEX20a 02 GSP	IGEX20a 04 GSP	IGEX20a 05 GSP	IGEX20a 08 GSP	IGEX20a 10 GSP	IGEX20a 15 GSP
Ex area of use	Gas: Zone 0/1 / Dust: Zone 20/21					
Certificate No.	EPS 17 ATEX 1 117 X			IECEx EPS 17.0059X		
Ex marking	Gas: II 1G Ex ma IIC T6 Ga Dust: II 1D Ex ma IIIC T90°C Da			Ex ma IIC T6 Ga Ex ma IIIC T90°C Da		
Ambient temperature [°C]	Gas Zone 0:		Gas Zone 1:		Dust Zone 20:	
* +55 for type M12x1	T6: -20 ≤ Ta ≤ +60 * T5: -20 ≤ Ta ≤ +60 * T4: -20 ≤ Ta ≤ +60 * T3: -20 ≤ Ta ≤ +60 *		T6: -20 ≤ Ta ≤ +60 * T5: -20 ≤ Ta ≤ +60 * T4: -20 ≤ Ta ≤ +60 * T3: -20 ≤ Ta ≤ +60 *		T6: -20 ≤ Ta ≤ +60 * T5: -20 ≤ Ta ≤ +60 * T4: -20 ≤ Ta ≤ +60 * T3: -20 ≤ Ta ≤ +60 *	
Supply voltage [V]	24 DC ±10%					
Switching current [mA]	50					
Rated voltage [V]	27 DC					
Rated current [mA]	50					
LED display	red	red	yellow	yellow	yellow	yellow
Impact protection cap	•		•		•	
Housing material	AISI 316 Ti / PPSU / LCP / POM		Br-Ni / PA / POM			
Protection [EN 60529]	IP 67					
Connection	2 m PUR-cable 3x0.34 mm²					
Note	explosionsgefährdeter Bereich (Gas oder Staub) hazardous area (gas or dust) IGEX20a... IGEX20Pa... BN BK BU L+ S L- nicht explosionsgefährdeter Bereich non hazardous area proximity switches with cable length > 2 m are available on request					



Dust / Gas-Ex | Compact model | Zone 0/20

Proximity switches

Gas-Ex Category 1
Ex ma IIC T6 Ga

Dust-Ex Category 1
Ex ma IIIC T90°C Da

Ambient temperature up to -60 °C



Design	DC PNP • M12x1		DC PNP • M18x1		DC PNP • M30x1.5	
Dimensions						
Installation flush (f) non flush (nf)						
Operating distance [mm]	2 f	4 nf	5 f	8 nf	10 f	15 nf
Switching output PNP						
ID-No.	P31385	P31386	P31387	P31388	P31389	P31390
Type	IGEX20Pa 02 GSP	IGEX20Pa 04 GSP	IGEX20Pa 05 GSP	IGEX20Pa 08 GSP	IGEX20Pa 10 GSP	IGEX20Pa 15 GSP
Ex area of use	Gas: Zone 0/1 / Staub: Zone 20/21					
Certificate No.	EPS 17 ATEX 1 117 X			IECEx EPS 17.0059X		
Ex marking	Gas: II 1G Ex ma IIC T6 Ga Dust: II 1D Ex ma IIIC T90°C Da			Ex ma IIC T6 Ga Ex ma IIIC T90°C Da		
Ambient temperature [°C]	Gas Zone 0: T6: -20 ≤ Ta ≤ +60 * T5: -20 ≤ Ta ≤ +60 * T4: -20 ≤ Ta ≤ +60 * T3: -20 ≤ Ta ≤ +60 *		Gas Zone 1: T6: -60 ≤ Ta ≤ +60 * T5: -60 ≤ Ta ≤ +60 * T4: -60 ≤ Ta ≤ +60 * T3: -60 ≤ Ta ≤ +60 *		Dust Zone 20: -20 ≤ Ta ≤ +60 * Dust Zone 21: -60 ≤ Ta ≤ +60 *	
* +55 for type M12x1						
Supply voltage [V]	24 DC ±10%					
Switching current [mA]	50					
Rated voltage [V]	27 DC					
Rated current [mA]	50					
LED display	yellow	yellow	yellow	yellow	yellow	yellow
Impact protection cap		•		•		•
Housing material	AISI 316 Ti / PTFE / PVDF / POM					
Protection [EN 60529]	IP 68 (3 bar)					
Connection	2 m FEP-cable 3x0.34 mm²					
	explosionsgefährdeter Bereich (Gas oder Staub) hazardous area (gas or dust) IGEX20a... IGEX20Pa... BU BN BK BU L+ S L- nicht explosionsgefährdeter Bereich non hazardous area					
Note	proximity switches with cable length > 2 m are available on request					


Dust / Gas-Ex | Intrinsically safe | Zone 0/20

Proximity switches

Gas-Ex Category 1
Ex ia IIC T6 Ga
Dust-Ex Category 1
Ex ia IIIC T80°C Da


Design	M12x1		M18x1		M30x1.5	
Dimensions						
Installation flush (f) non flush (nf)						
Operating distance [mm]	2 f	4 nf	5 f	8 nf	10 f	15 nf
ID-No.	P31412	P31413	P31414	P31415	P31416	P31417
Type	IGEXUa 02	IGEXUa 04	IGEXUa 05	IGEXUa 08	IGEXUa 10	IGEXUa 15
Ex area of use	Gas: Zone 0/1 / Dust: Zone 20/21					
Certification No.	EPS 17 ATEX 1 173 X			IECEx EPS 17.0087X		
Ex marking	Gas: II 1G Ex ia IIC T6 Ga Dust: II 1D Ex ia IIIC T80°C Da			Gas: Ex ia IIC T6 Ga Dust: Ex ia IIIC T80°C Da		
Ambient temperature [°C] and medium temperature	Gas Zone 0: T6: -20 ≤ Ta ≤ +60 T5: -20 ≤ Ta ≤ +60 T4: -20 ≤ Ta ≤ +60 T3: -20 ≤ Ta ≤ +60 Dust Zone 20: -25 ≤ Ta ≤ +75		Gas Zone 1: T6: -25 ≤ Ta ≤ +75 T5: -25 ≤ Ta ≤ +75 T4: -25 ≤ Ta ≤ +75 T3: -25 ≤ Ta ≤ +75 Dust Zone 21: -25 ≤ Ta ≤ +75			
Maximum values	Ui = 12.6 V / Ii = 15.9 mA / Pi = 50 mW / Ci = 66.2 nF / Li = 1.2 mH					
Housing material	Br-Ni / PA					
Protection [EN 60529]	IP 67					
Connection	M12 connector					
For the connection to amplifiers IKMb 122 Ex..., page 3.67						


Dust / Gas-Ex | Intrinsically safe | Zone 0/20

Proximity switches
Gas-Ex Category 1
Ex ia IIC T6 Ga
Dust-Ex Category 1
Ex ia IIIC T80°C Da


Design	M12x1		M18x1		M30x1.5	
Dimensions						
Installation flush (f) non flush (nf)						
Operating distance [mm]	2 f	4 nf	5 f	8 nf	10 f	15 nf
ID-No.	P31445	P31446	P31447	P31448	P31449	P31450
Type	IGEXa 02	IGEXa 04	IGEXa 05	IGEXa 08	IGEXa 10	IGEXa 15
Ex area of use	Gas: Zone 0/1 / Dust: Zone 20/21					
Certification No.	EPS 17 ATEX 1 173 X			IECEx EPS 17.0087X		
Ex marking	Gas: II 1G Ex ia IIC T6 Ga Dust: II 1D Ex ia IIIC T80°C Da			Gas: Ex ia IIC T6 Ga Dust: Ex ia IIIC T80°C Da		
Ambient temperature [°C] and medium temperature	Gas Zone 0: T6: -20 ≤ Ta ≤ +60 T5: -20 ≤ Ta ≤ +60 T4: -20 ≤ Ta ≤ +60 T3: -20 ≤ Ta ≤ +60 Dust Zone 20: -25 ≤ Ta ≤ +75		Gas Zone 1: T6: -25 ≤ Ta ≤ +75 T5: -25 ≤ Ta ≤ +75 T4: -25 ≤ Ta ≤ +75 T3: -25 ≤ Ta ≤ +75 Dust Zone 21: -25 ≤ Ta ≤ +75			
Maximum values	Ui = 12.6 V / li = 15.9 mA / Pi = 50 mW / Ci = 66.2 nF / Li = 1.2 mH					
Housing material	Br-Ni / PA					
Protection [EN 60529]	IP 67					
Connection	2 m PVC-cable 2x0.5 m²					
For the connection to amplifiers IKMb 122 Ex..., page 3.67						
Note	proximity switches with cable length > 2 m are available on request					



Dust / Gas-Ex | Intrinsically safe | Zone 0/20

Proximity switches

Gas-Ex Category 1
Ex ia IIC T6 Ga

Dust-Ex Category 1
Ex ia IIIC T145°C Da

High temperature sensors +140 °C
IP 69 Resistant to high pressure cleaning



Design	M12x1		M18x1		M30x1.5	
Dimensions						
Installation flush (f) non flush (nf)						
Operating distance [mm]	2 f	4 nf	5 f	8 nf	10 f	15 nf
ID-No.	P31400	P31401	P31402	P31403	P31404	P31405
Type	IGEXHa 02	IGEXHa 04	IGEXHa 05	IGEXHa 08	IGEXHa 10	IGEXHa 15
Ex area of use	Gas: Zone 0/1 / Dust: Zone 20/21					
Certificate No.	EPS 17 ATEX 1 173 X			IECEx EPS 17.0087X		
Ex marking	Gas: II 1G Ex ia IIC T6 Ga Dust: II 1D Ex ia IIIC T145°C Da			Gas: Ex ia IIC T6 Ga Dust: Ex ia IIIC T145°C Da		
Ambient temperature [°C] and medium temperature	Gas Zone 0: T6: -20 ≤ Ta ≤ +60 T5: -20 ≤ Ta ≤ +60 T4: -20 ≤ Ta ≤ +60 T3: -20 ≤ Ta ≤ +60 Dust Zone 20: -25 ≤ Ta ≤ +140		Gas Zone 1: T6: -25 ≤ Ta ≤ +75 T5: -25 ≤ Ta ≤ +90 T4: -25 ≤ Ta ≤ +125 T3: -25 ≤ Ta ≤ +140 Dust Zone 21: -25 ≤ Ta ≤ +140			
Maxium values	Ui = 12.6 V / Ii = 15.9 mA / Pi = 50 mW / Ci = 66.2 nF / Li = 1.2 mH					
Housing material	AISI 316 Ti / PEEK					
Protection [EN 60529]	IP 68 (3 bar), IP 69					
Connection	2 m FEP-cable 2x0.34 mm²					
Sensors for the connection to amplifiers IKMb 122 Ex..., page 3.67	explosionsgefährdeter Bereich hazardous area nicht explosionsgefährdeter Bereich non hazardous area					
Note	proximity switches with cable length > 2 m are available on request					


Dust / Gas-Ex | Intrinsically safe | Zone 0/20

Proximity switches
Gas-Ex Category 1
Ex ia IIC T6 Ga
Dust-Ex Category 1
Ex ia IIIC T65°C Da
POLAR-Sensors – 60 °C
IP 69 Resistant to high pressure cleaning


Design	M12x1		M18x1		M30x1.5	
Dimensions						



Dust / Gas-Ex | Compact model | Zone 2/22

Proximity switches

Gas-Ex Category 3
Ex ec IIC T6...T3 Gc

Dust-Ex Category 3
Ex tc IIIC T 70°C Dc



Design	DC PNP • M12x1		DC PNP • M18x1		DC PNP • M30x1.5	
Dimensions						
Installation flush (f) non flush (nf)						
Operating distance [mm]	2 f	4 nf	5 f	8 nf	10 f	15 nf
Switching output PNP						
ID-No.	P31391	P31392	P31393	P31394	P31395	P31396
Type	IGEX22c 02 GSP	IGEX22c 04 GSP	IGEX22c 05 GSP	IGEX22c 08 GSP	IGEX22c 10 GSP	IGEX22c 15 GSP
Ex area of use	Gas: Zone 2 / Dust: Zone 22					
Certificate No.	IECEx EPS 17.0042X					
Conformity No.	EGE 18.0020 X					
Ex marking	Gas: II 3G Ex ec IIC T6...T3 Gc Dust: II 3D Ex tc IIIC T 70°C Dc			Gas: Ex ec IIC T6...T3 Gc Dust: Ex tc IIIC T 70°C Dc		
Ambient temperature [°C] and medium temperature	Gas Zone 2: T6: -20 ≤ Ta ≤ +60 T5: -20 ≤ Ta ≤ +60 T4: -20 ≤ Ta ≤ +60 T3: -20 ≤ Ta ≤ +60 Dust Zone 22: -20 ≤ Ta ≤ +60					
Rated voltage [V]	30 DC					
Supply voltage [V]	24 DC ±10%					
Switching current [mA]	100					
Switching frequency [Hz]	300					
LED display	red	red	yellow	yellow	yellow	yellow
Impact protection cap		•		•		•
Housing material	AISI 316 Ti / PPSU / LCP / POM			Br-Ni / PA / POM		
Protection [EN 60529]	IP 67					
Connection	2 m PUR-cable 3x0.34 mm²					
Note	proximity switches with cable length > 2 m are available on request					



Dust / Gas-Ex | Compact model | Zone 2/22

Proximity switches

Gas-Ex Category 3
Ex ec IIC T6...T3 Gc

Dust-Ex Category 3
Ex tc IIIC T 70°C Dc

One piece stainless
steel housing



Design	DC PNP • M12x1	DC PNP • M18x1	DC PNP • M30x1.5
Dimensions			
Operating distance [mm]	2	5	10
Switching output PNP			
ID-No.	P31397	P31398	P31399
Type	IGVEX22c 02 GSP	IGVEX22c 05 GSP	IGVEX22c 10 GSP
Ex area of use	Gas: Zone 2 / Dust: Zone 22		
Certificate No.	IECEx EPS 17.0042X		
Conformity No.	EGE 18.0020 X		
Ex marking	Gas: II 3G Ex ec IIC T6...T3 Gc Dust: II 3D Ex tc IIIC T 70°C Dc	Gas: Ex ec IIC T6...T3 Gc Dust: Ex tc IIIC T 70°C Dc	
Ambient temperature and medium temperature [°C]	Gas Zone 2: T6: -5 ≤ Ta ≤ +55 T5: -5 ≤ Ta ≤ +55 T4: -5 ≤ Ta ≤ +55 T3: -5 ≤ Ta ≤ +55 Dust Zone 22: -5 ≤ Ta ≤ +55	Gas Zone 2: T6: -10 ≤ Ta ≤ +55 T5: -10 ≤ Ta ≤ +55 T4: -10 ≤ Ta ≤ +55 T3: -10 ≤ Ta ≤ +55 Dust Zone 22: -10 ≤ Ta ≤ +55	Gas Zone 2: T6: -20 ≤ Ta ≤ +60 T5: -20 ≤ Ta ≤ +60 T4: -20 ≤ Ta ≤ +60 T3: -20 ≤ Ta ≤ +60 Dust Zone: -20 ≤ Ta ≤ +60
Rated voltage [V]	30 DC		
Supply voltage [V]	24 DC ±10%		
Switching current [mA]	100		
Switching frequency [Hz]	180		
LED display	red	yellow	yellow
Housing material	AISI 316 L / PPSU	AISI 316 L / PA	AISI 316 L / PA
Protection [EN 60529]	IP 67		
Connection	2 m PUR-cable 3x0.34 mm ²		
Note	proximity switches with cable length > 2 m are available on request		



Dust / Gas-Ex | Compact model | Zone 2/22

Proximity switches

Gas-Ex Category 3
Ex ec IIC T6...T3 Gc

Dust-Ex Category 3
Ex tc IIIC T 70°C Dc

One piece stainless steel housing
Silicone cable



Design	DC PNP • M12x1	DC PNP • M18x1	DC PNP • M30x1.5
Dimensions			
Operating distance [mm]	2	5	10
Switching output PNP			
ID-No.	P31421	P31422	P31423
Type	IGVEX22c 02 GSP-K1	IGVEX22c 05 GSP-K1	IGVEX22c 10 GSP-K1
Ex area of use	Gas: Zone 2 / Dust: Zone 22		
Certificate No.	IECEx EPS 17.0042X		
Conformity No.	EGE 18.0020 X		
Ex marking	Gas: Ex II 3G Ex ec IIC T6...T3 Gc Dust: Ex II 3D Ex tc IIIC T 70°C Dc	Gas: Ex ec IIC T6...T3 Gc Dust: Ex tc IIIC T 70°C Dc	
Ambient temperature and medium temperature [°C]	Gas Zone 2: T6: -20 ≤ Ta ≤ +55 T5: -20 ≤ Ta ≤ +55 T4: -20 ≤ Ta ≤ +55 T3: -20 ≤ Ta ≤ +55 Dust Zone 22: -20 ≤ Ta ≤ +55		Gas Zone 2: T6: -20 ≤ Ta ≤ +60 T5: -20 ≤ Ta ≤ +60 T4: -20 ≤ Ta ≤ +60 T3: -20 ≤ Ta ≤ +60 Dust Zone: -20 ≤ Ta ≤ +60
Rated voltage [V]	30 DC		
Supply voltage [V]	24 DC ±10%		
Switching current [mA]	100		
Switching frequency [Hz]	180		
LED display	red	yellow	yellow
Housing material	AISI 316 L / PPSU	AISI 316 L / PA	AISI 316 L / PA
Protection [EN 60529]	IP 67		
Connection	2 m silicone-cable 3x0.34 mm ²		
Note	proximity switches with cable length > 2 m are available on request		



Ex-Amplifiers

Gas [Ex ia Ga] IIC
Dust [Ex ia Da] IIIC

Cable break and
short circuit monitoring

Connection to intrinsically safe
2-lead sensors

Output function programmable



Design	IKMb 122 Ex...		
Dimensions			
ID-No.	P31418	P31420	P31419
Type	IKMb 122 Ex-24	IKMb 122 Ex-115	IKMb 122 Ex-230
Output	 relay / change over		
Ex area of use	outside of the hazardous areas (gas or dust)		
Certificate No.	EPS 17 ATEX 1 091		IECEX EPS 17.0047
Ex marking	Gas: II (1)G [Ex ia Ga] IIC Dust: II (1)D [Ex ia Da] IIIC	Gas: [Ex ia Ga] IIC Dust: [Ex ia Da] IIIC	
Ambient temperature [°C]	$-20 \leq T_a \leq +60$		
Maximum values	$U_o = 9.6 \text{ V} / I_o = 10.1 \text{ mA} / P_o = 24.2 \text{ mW} / C_o = 0.84 \mu\text{F} / L_o = 5.00 \text{ mH}$		
Rated voltage [V]	30 DC	127 AC	253 AC
Supply voltage [V]	24 DC $\pm 10\%$	115 AC $\pm 10\%$	230 AC $\pm 10\%$
Switching voltage max. [V]	250 AC / 60 DC / 24 DC		
Switching current max. [A]	4 AC / 0,8 DC / 4 DC		
Switching power	$\cos \varphi > 0,7 / L/R \leq 200 \text{ ms} / L/R \leq 200 \text{ ms}$		
LED display	power: green / switching output: yellow / cable break: red		
Protection [EN 60529]	IP 20		
Connection	terminal screws		



Ex-Amplifiers

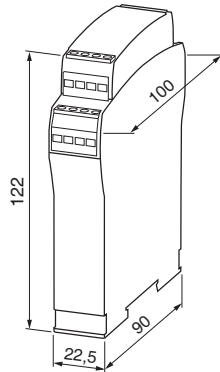
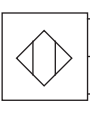
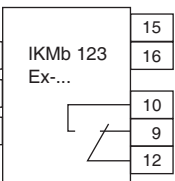
Gas [Ex ia Ga] IIC
Dust [Ex ia Da] IIIC

Cable break and
short circuit monitoring

Connection to intrinsically safe
3-lead sensors

Output function programmable

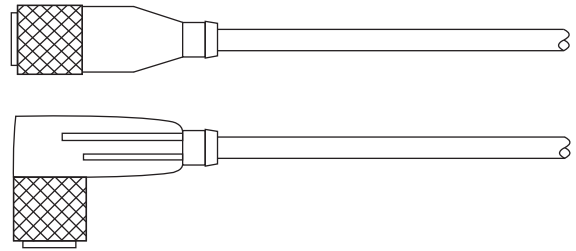


Design	IKMb 123 Ex...		
Dimensions			
ID-No.	P31451	P31453	P31452
Type	IKMb 123 Ex-24	IKMb 123 Ex-115	IKMb 123 Ex-230
Output	 relay / change over		
Ex area of use	outside of the hazardous areas (gas or dust)		
Certificate No.	EPS 17 ATEX 1 091	IECEX EPS 17.0047	
Ex marking	Gas:  II (1)G [Ex ia Ga] IIC Dust:  II (1)D [Ex ia Da] IIIC	Gas: [Ex ia Ga] IIC Dust: [Ex ia Da] IIIC	
Ambient temperature [°C]	$-20 \leq T_a \leq +60$		
Maximum values	$U_o = 9.6 \text{ V} / I_o = 50.5 \text{ mA} / P_o = 121.3 \text{ mW} / C_o = 0.68 \mu\text{F} / L_o = 5.00 \text{ mH}$		
Rated voltage [V]	30 DC	127 AC	253 AC
Supply voltage [V]	24 DC $\pm 10\%$	115 AC $\pm 10\%$	230 AC $\pm 10\%$
Switching voltage max. [V]	250 AC / 60 DC / 24 DC		
Switching current max. [A]	4 AC / 0,8 DC / 4 DC		
Switching power	$\cos \varphi > 0,7 / L/R \leq 200 \text{ ms} / L/R \leq 200 \text{ ms}$		
LED display	power: green / switching output: yellow / cable break: red		
Protection [EN 60529]	IP 20		
Connection	terminal screws		
	explosionsgefährdeter Bereich hazardous area  nichtexplosionsgefährdeter Bereich non hazardous area  15 L1 / + Betriebsspannung 16 N / - Supply voltage 10 Relais Ausgang / 9 Relay output 12		

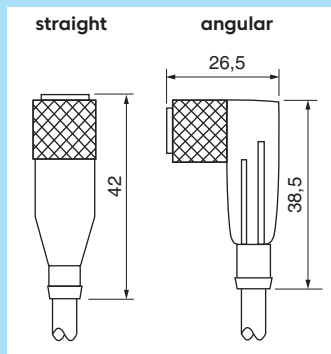


Accessories | M12 connector

Finished cable plug housing
Self locking screw plug
Protection IP 67



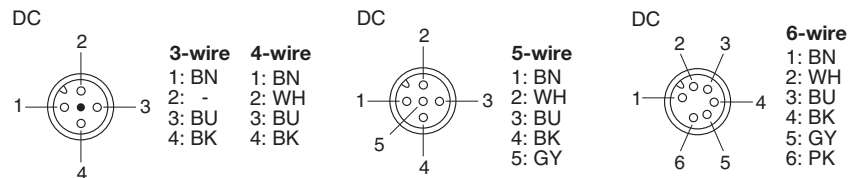
Cable plug housing



SLG...

SLW...

Pin-assignment



DC

TYPE	ID-NO.	DESIGN
SLG 3-2	Z01076	Cable plug housing straight, 2 m cable 3x0.34 mm ² max. 250 V / 4 A
SLG 3-5	Z01077	Cable plug housing straight, 5 m cable 3x0.34 mm ² max. 250 V / 4 A
SLW 3-2	Z01078	Cable plug housing angular, 2 m cable 3x0.34 mm ² max. 250 V / 4 A
SLW 3-5	Z01079	Cable plug housing angular, 5 m cable 3x0.34 mm ² max. 250 V / 4 A
SLW 3-2-LED	Z00052	Cable plug housing angular, 2 m cable 3x0.34 mm ² max. 250 V / 4 A PNP with LED
SLG 4-2	Z00445	Cable plug housing straight, 2 m cable 4x0.25 mm ² max. 250 V / 4 A
SLG 4-5	Z00449	Cable plug housing straight, 5 m cable 4x0.25 mm ² max. 250 V / 4 A
SLW 4-2	Z00446	Cable plug housing angular, 2 m cable 4x0.25 mm ² max. 250 V / 4 A
SLW 4-5	Z00450	Cable plug housing angular, 5 m cable 4x0.25 mm ² max. 250 V / 4 A
SLW 4-2-LED	Z01157	Cable plug housing angular, 2 m cable 4x0.25 mm ² max. 250 V / 4 A PNP with LED
SLG 5-2	Z01150	Cable plug housing straight, 2 m cable 5x0.34 mm ² max. 60 V / 2 A
SLW 5-2	Z01151	Cable plug housing angular, 2 m cable 5x0.34 mm ² max. 60 V / 2 A
SLG 6-2	Z01197	Cable plug housing straight, 2 m cable 6x0.25 mm ² max. 36 V / 2 A
SLW 6-2	Z01198	Cable plug housing angular, 2 m cable 6x0.25 mm ² max. 36 V / 2 A

DATA

Thread	M12x1	Contact resistance	≤ 5 mΩ
Material	PVC	Insulation resistance	>10 ⁹
Protection	IP 67	Testing voltage	2.0 KV eff. / 5 and 6 pol. 1.5 KV eff.
Temperature range	-25...+80 °C		

Note:

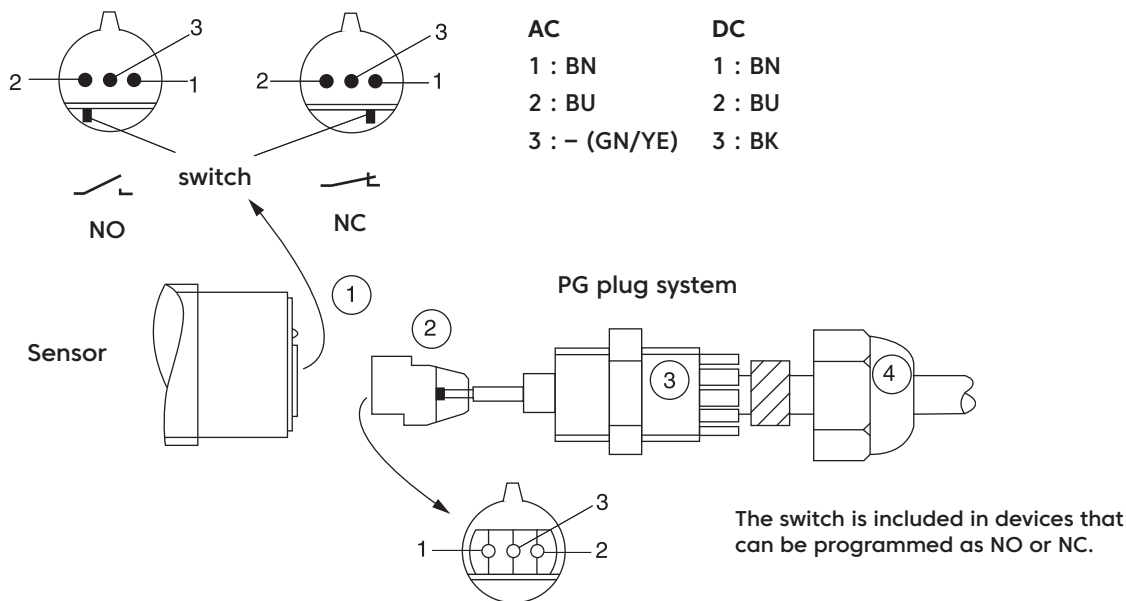
Sensors with NC output are connected to 4 pole cable plug housings. In this case, the break output is connected to the white lead (connection 2).



Accessories | PG plug system

PG plug type connection with PVC-cable Protection IP 68

PG-plug connection



Mounting of PG plug system

Connect the cable to the EGE-plug (2) and put it into the plug-housing (1) until it is at the stop. Make sure that the "nose" of the plug fits exactly into the housing. If this is done in the right way, the plug is hidden in the plug-housing.

Screw part (3) into the plug-housing (1) and fix it rightly with a spanner. After about 2 hours righten it again with the spanner.

Now fit the nut (4) by hand and afterwards with a spanner. Do not apply too much force. For a good sealing there should be stet 2 mm between nut (4) and part (3).

TYPE	ID-NO.	DESIGN
PG 2-2	Z00025	PG-plug connection, 2 m PVC-cable 2x0.75 mm ² AC
PG 2-3	Z00026	PG-plug connection, 3 m PVC-cable 2x0.75 mm ² AC
PG 2-5	Z00027	PG-plug connection, 5 m PVC-cable 2x0.75 mm ² AC
PG 2-10	Z00028	PG-plug connection, 10 m PVC-cable 2x0.75 mm ² AC
PG 2-20	Z00029	PG-plug connection, 20 m PVC-cable 2x0.75 mm ² AC
PG 3-2	Z00020	PG-plug connection, 2 m PVC-cable 3x0.5 mm ² DC
PG 3-3	Z00021	PG-plug connection, 3 m PVC-cable 3x0.5 mm ² DC
PG 3-5	Z00022	PG-plug connection, 5 m PVC-cable 3x0.5 mm ² DC
PG 3-10	Z00023	PG-plug connection, 10 m PVC-cable 3x0.5 mm ² DC
PG 3-20	Z00024	PG-plug connection, 20 m PVC-cable 3x0.5 mm ² DC

Note

The power supply must be disconnected before the plug will be installed or removed.

Code: BK = black BN = brown BU = blue GN = green YE = yellow GY = grey PK = pink WH = white



Accessories | Assembly parts

Lock nuts, brass-nickel - plated

ID-NO.	Z00106	Z00107	Z00114	Z00109	Z00110
Nut thickness [mm]	4	4	4	5	5
Thread	M12x1	M18x1	M22x1	M30x1.5	M38x1.5
Spanner size	17	24	27	36	50

Lock nuts, stainless steel

ID-NO.	Z01098	Z00112	Z00113	Z00115
Nut thickness [mm]	4	4	4	5
Thread	M8x1	M12x1	M18x1	M30x1.5
Spanner size	13	17	24	36

Lock nuts, plastics

ID-NO.	Z00180	Z00120	Z00117	Z00118	Z00119	Z01092	Z01052
Nut thickness [mm]	6	8	4	5	5,5	8	8
Thread	M14x1	M30x1.5	M12x1	M18x1	M30x1.5	G 3/4	G 1
Spanner size	22	41	17	24	36	41	50
Material	PTFE	PTFE	PPE	PPE	PPE	PTFE	PTFE

Central screw, polyamide

Z00104	M12, length 70 mm, hexagon socket 10 mm, material PA
Z00105	M16, length 90 mm, hexagon socket 14 mm, material PA

MOUNTING CLAMPS

TYPE		ID-NO.	DIMENSIONS	DESIGN																		
KLS 20 KLS 34	Ø 20 Ø 34	Z00100 Z00102	E: hexagon socket screw 1.4305	Clamps of PA, for smooth-bodied switches																		
				<table><tr><td>F</td><td>Ø 20</td><td>Ø 34</td></tr><tr><td>A</td><td>47</td><td>61</td></tr><tr><td>B</td><td>30</td><td>47</td></tr><tr><td>C</td><td>17</td><td>15</td></tr><tr><td>D</td><td>32</td><td>45</td></tr><tr><td>E</td><td>M5x30</td><td>M5x50</td></tr></table>	F	Ø 20	Ø 34	A	47	61	B	30	47	C	17	15	D	32	45	E	M5x30	M5x50
F	Ø 20	Ø 34																				
A	47	61																				
B	30	47																				
C	17	15																				
D	32	45																				
E	M5x30	M5x50																				
KLB 35	Ø 35	Z00125	hexagon socket screw 1.4571	Clamp of PTFE (Teflon), for smooth-bodied switches hexagon socket screw M5x40																		
KBM 025 KBM 030 KBM 035	Ø 25 Ø 30 Ø 35	Z01189 Z01188 Z01187	Ø 7	Mounting clamp of aluminium																		
				<table><tr><td>Typ</td><td>D</td></tr><tr><td>KBM 025</td><td>Ø 25</td></tr><tr><td>KBM 030</td><td>Ø 30</td></tr><tr><td>KBM 035</td><td>Ø 35</td></tr></table>	Typ	D	KBM 025	Ø 25	KBM 030	Ø 30	KBM 035	Ø 35										
Typ	D																					
KBM 025	Ø 25																					
KBM 030	Ø 30																					
KBM 035	Ø 35																					

Sales partners, wholesalers and representatives



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We look forward to your enquiry.
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