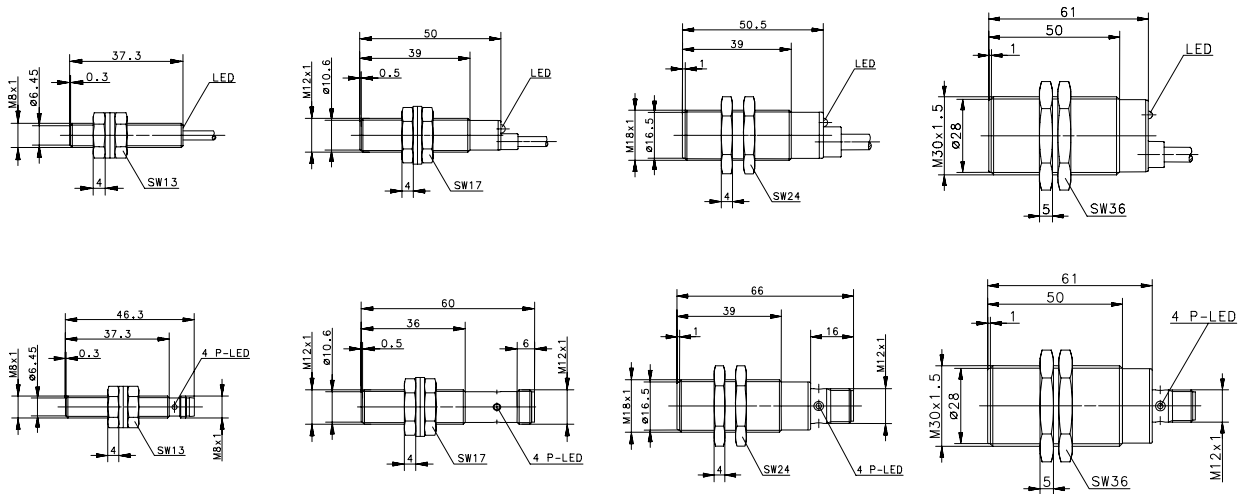


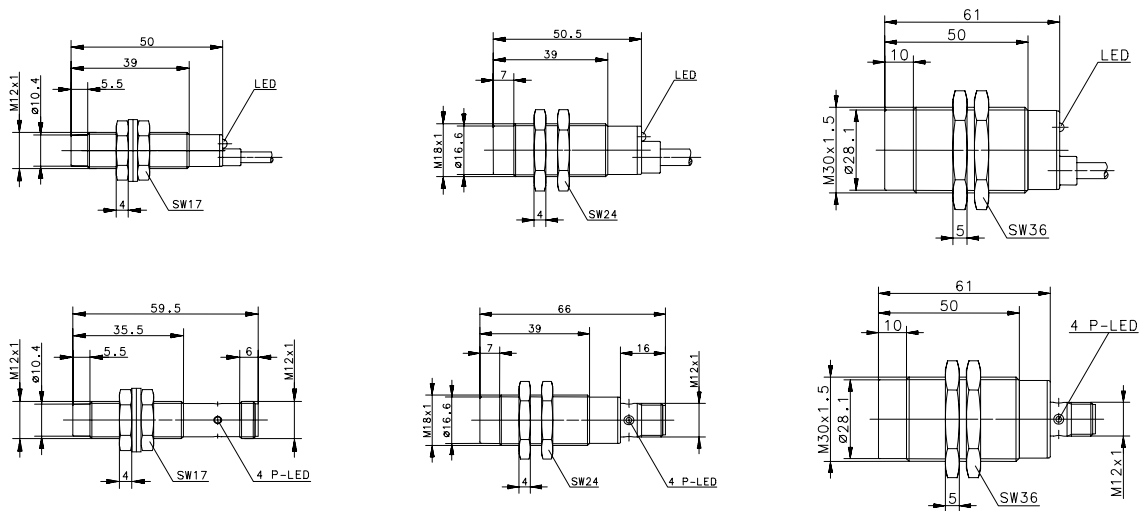
Technical Data

Inductive Proximity Switch

Series M8, M12, M18 and M30 Globaline



Mounting	Type M8x1		Type M12x1		Type M18x1		Type M30x1,5	
	2m cable	M8 male plug	2m cable	M12 male plug	2m cable	M12 male plug	2m cable	M12 male plug
S_n / S_a	1,5mm / 0...1,2mm		2mm / 0...1,6mm		5mm / 0...4,1mm		10mm / 0...8,1mm	
f	1000Hz		800Hz		500Hz		300Hz	
PNP	6932901001	6932942001	6932903001	6932943001	6932905001	6932905004	6932907001	6932907002
NPN	6932301001	6932342001	6932303001	6932343001	6932305001	6932305004		



Mounting	Type M12x1		Type M18x1		Type M30x1,5	
	2m cable	M12 male plug	2m cable	M12 male plug	2m cable	M12 male plug
S_n / S_a	4mm / 0...3,2mm		8mm / 0...6,5mm		15mm / 0...12,2mm	
f	400Hz		200Hz		100Hz	
PNP	6932904001	6932944001	6932906001	6932906004	6932908001	6932908002
NPN	6932304001	6932344001	6932306001	6932306004		

S_n = Rated operating distance / S_a = Assured operating distance
f = Frequency of operating cycles

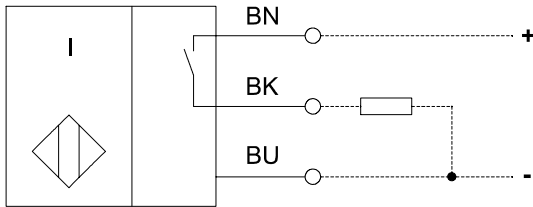
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Technical Data

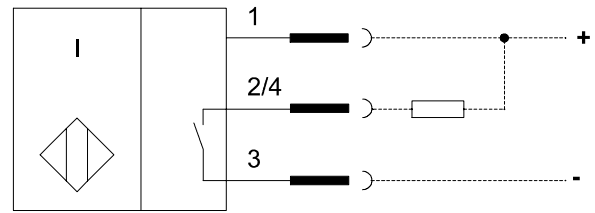
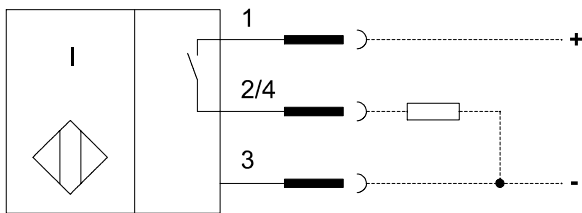
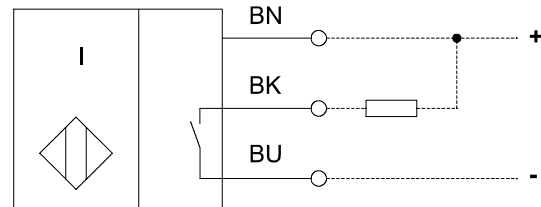
Inductive Proximity Switch

Wiring diagrams PNP and NPN normally open

PNP – Proximity Switch

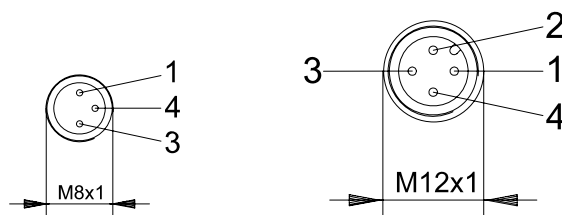


NPN - Proximity Switch



Male plug M8x1 / M12x1 and corresponding colours

pin number	colour	code
1	brown	BN
2	-	-
3	blue	BU
4	black	BK



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Identifying characteristics in accordance with EN 60947-5-2

Electrical data		
Rated operating distance	S_n	see overview
Assured operating distance	S_a	see overview
Switching element function		N.O., permanent short circuit protection, Indication LED yellow M12, M18, M30 Open Collector Output
Repeat accuracy	R	$\leq 5\%$
Differential travel (hysteresis)	H	$\approx 10\%$
Operational voltage range	U_B	10 – 36V DC
Rated insulation voltage	U_i	75V DC
Rated impulse withstand voltage	U_{imp}	500V
Voltage drop	U_d	$\leq 1,5V$
Utilization category		DC-13
Rated operational current	I_e	$\leq 200mA$
Off-state current	I_r	$\leq 0,3mA$
No-load supply current	I_o	$\leq 11mA$
Short-circuit protection		pulsed
Frequency of operating cycles	f	see overview
Mounting		see overview – flush and non flush
False polarity protection		yes
Time delay before availability	t_v	$\leq 50ms$

Electromagnetic compatibility (EMC)	
Electromagnetic field test	IEC 61000-4-3
Electrostatic discharge test	IEC 61000-4-2
Electrical fast transient immunity test (Burst)	IEC 61000-4-4
Radiated disturbance field strength	EN 55011

Mechanical Data	
Enclosure	M8x1 = stainless steel (Niro 1.4305) M12x1, M18x1, M30x1,5 = brass, nickel plated
Front cap	M8x1 = PA 6 black M12x1, M18x1, M30x1,5 = PA6.6 black
End cap	M12x1 = PA6.6 black M18x1 and M30x1,5 = PA12 black
Ambient air temperature	-25°C...+70°C
Type of protection (acc. to EN 60529; DIN VDE 0470 T1)	Cable versions: IP67 Male plug versions: M8x1 with plug-in-connector IP65 Male plug versions: M8x1 / M12x1 with screwed plug-in-connector IP67
Type of protection (acc. to DIN 40050 T9)	IP6k9k in front area @ 6932305004, 6932306004, 6932343001, 6932344001, 6932905004, 6932906004, 6932907002, 6932908002, 6932943001, and 6932944001
Indication	Output LED yellow
Termination type	Cable 3x0,14mm ² x 2m, PVC-outer jacket black (M8x1, M12x1) Cable 3x0,5mm ² x 2m, PVC-outer jacket black (M18x1, M30x1,5) Male plug M8x1, brass, nickel plated Male plug M12x1, PA
For attachment	Hexagon nut stainless steel or brass, nickel plated M8x1, M12x1 additional with 2 x toothed washer

EG-Konformität	CE
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