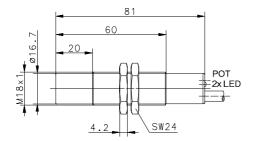
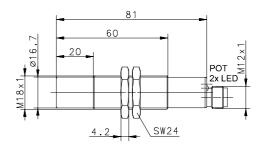
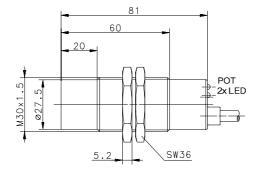


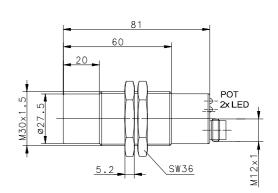
### Series M18, M30, Ø20 and Ø34 non flush - AC





Mounting	Type M18x1 Enclosure: plastic			
non flush	2m c	cable	M12 male plug	
Sn	8mm			
Sr	1-8mm			
Output	N.O.	N.C.	N.O.	N.C.
AC	6508521001 6508421001		6508521004	6508421004





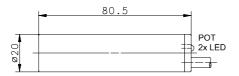
Mounting	Type M30x1,5 Enclosure: plastic			
non flush	2m cable		M12 male plug	
Sn	20mm			
Sr	5-20mm			
Output	N.O.	N.C.	N.O.	N.C.
AC	6508523001 6508423001		6508523004	6508423004

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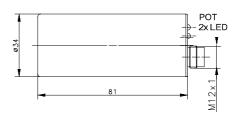
Document : 7100011\_en / Last update : 1 / 0317-03





Mounting	Series Ø20 Enclosure: plastic	
non flush 2m cable		
Sn	15mm	
Sr	3,5-15mm	
Output	N.O. N.C.	
AC	6508510001 6508410001	





Mounting	Series Ø34 Enclosure: plastic			
non flush	2m c	cable	M12 male plug	
Sn	30mm			
Sr	6-30mm			
Output	N.O.	N.C.	N.O.	N.C.
AC	6508515001 6508415001		6508515005	6508415004

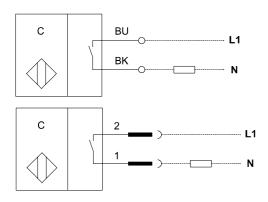
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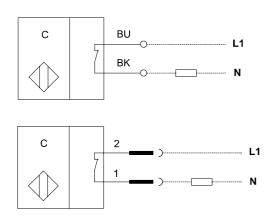
Document: 7100011\_en / Last update: 1 / 0317-03



#### Wiring diagrams AC normally open / N.O.

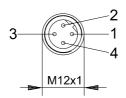


#### Wiring diagrams AC normally closed / N.C.



#### Male plug M12x1 and corresponding colours

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



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#### Identifying characteristics in accordance with EN 60947-5-2

Electrical data		
Rated operating distance	Sn	see overview
Mounting		Non flush
Standard target		3·S <sub>n</sub> x 3·S <sub>n</sub> x 1mm; material: steel; connected to earth
		see overview
Effective operating distance	Sr	S <sub>r</sub> adjustable with potentiometer (POT);
, 3		turn right ≙ high sensitivity, turn left ≙ low sensitivity
Assured operating distance	Sa	0 ≤ Sa ≤ 0,8·Sr
Switching element function		see overview
Repeat accuracy	R	≤ 0,1·Sr
Differential travel (hysteresis)	Н	≤ 0,2·Sr
Frequency of operating cycles	f	> 15Hz
Rate doperational voltage	Ue	24V - 230V AC
Operational voltage range	$U_B$	20V - 250V AC
Rated insulation voltage	Ui	250V AC
Rated impulse withstand voltage	$U_{imp}$	1500V
Voltage drop	$U_d$	≤ 10V AC ( effective value )
Utilization category		AC-140 (Switching element)
Rated operational current	le	≤ 300mA AC
Minimum operational current	I <sub>m</sub>	≥ 5mA AC
Off–state current	l <sub>r</sub>	≤ 3mA AC
Rated supply frequency		AC 50Hz - 60Hz
False polarity protection		with permutation of +, -, output no damage occurs
Time delay before availability	$t_v$	≤ 300ms

Electromagnetic compatibility (EMC)		
Electromagnetic field test	IEC 61000-4-3	3V/m, 801000MHz
Electrostatic discharge test	IEC 61000-4-2	8kV AD
Electrical fast transient immunity test (Burst)	IEC 61000-4-4	4kV coupling clamp
Impulse voltage withstandability (Surge)	IEC 61000-4-5	2KV, 1,2/50 $\mu$ s @ Ri = 42Ω
Radiated disturbance field strength	EN 55011	≤ 40dB (µV/m)

Mechanical Data	
Enclosure	M18 and M30 = PBT black Ø20 and Ø34 = PBT red
End cap	PA 6.6 black
Ambient air temperature	-25°C +70°C
Type of protection	IP67 (NEMA 4) (plug-in connection: only in fully locked position with it's plugs)
Pollution degree	3 (Pollution of the active zone can cause impairments of the operating distances.)
Indication	Power ON = LED green Output ON = LED yellow
Termination type	Cable 2 x 0,5mm² x 2m, PVC-outer jacket black Male plug M12x1, PA
For attachment	M18x1 and M30x1,5 = hexagon nut PA 6.6 black

EU Conformity	CE	

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