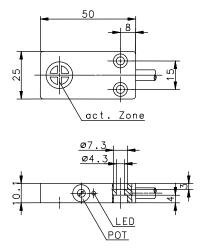
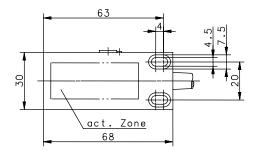
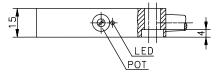
Technical Data Capacitive Proximity Switch



Series E50 and E68 flush - DC



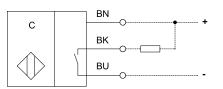


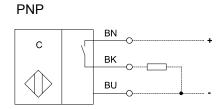


Mounting: flush	Type E50 Enclosure: Thermoplastic		Type E68 Enclo	sure: Thermoplastic		
Mounting. Idon	2m cable					
Sn	8mm	10mm				
Sr	2-8mm	3-10mm				
Output	N.O.	N.C.	N.O.	N.C.		
NPN	6507390001		6507356001			
PNP	6507990001		6507956001			

Wiring Diagram NPN and PNP N.O.

NPN





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Technical Data Capacitive Proximity Switch



Technical Data according to EN 60947-5-2

Electrical data		
Rated operating distance	Sn	See overview
Mounting		flush
Standard target		E50 = 25x20x1mm; E68 = 57x30x1mm;
Standard target		material: steel; connected to earth
		See overview
Effective operating distance	Sr	Adjustable with potentiometer (POT)
je na se	- 1	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	≈ 25Hz
Rated operational voltage	Ue	12 – 24V DC
Operational voltage range	UB	10 – 36V DC
Rated insulation voltage	Ui	75V DC
Rated impulse withstand voltage	U _{imp}	500V
Voltage drop	Ud	≤ 1,5V DC
Utilization category		DC-13 (Switching element)
Rated operational current	le	≤ 200mA DC
Minimum operational current	l _m	≥ 1mA DC
Off-state current	l _r	≤ 0,5mA DC
No-load supply current	l _o	≤ 15mA DC
Switching element		Permanent overload and s.c.p.
Short-circuit protection		Pulsed
Rated conditional short-circuit current		100A
Rated supply frequency		DC
False polarity protection		With permutation of +, –, output no damage occurs
Time delay before availability	tv	≤ 50ms

Electromagnetic compatibility (EMC)

Electromagnetic field test Electrostatic discharge test Electrical fast transient immunity test (Burst) Impulse voltage withstandability (Surge) Radiated disturbance field strength
 IEC 61000-4-3
 3V/m, 8

 IEC 61000-4-2
 8kV AD

 IEC 61000-4-2
 1kV/ co

 IEC 61000-4-4
 1kV/ co

 IEC 61000-4-5
 500V,

 EN 55011
 ≤ 40dB

3V/m, 80...1000MHz 8kV AD 1kV/ coupling clamp 500V, 1,2/50μs bei Ri = 42Ω ≤ 40dB (μV/m)

Mechanical Data	
Enclosure	PBT black
Ambient air temperature	-25°C 70°C
Type of protection	IP65 (NEMA 12)
Pollution degree	3 (Pollution of the active zone can cause Impairments of the operating distances.)
Indication	Power ON: LED = yellow
Termination type	E50 = Cable 3 x 0,34mm ² x 2m; PVC–Outer jacket, black E68 = Cable 3 x 0,5mm ² x 2m; PVC–Outer jacket, black

EU Conformity	1
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C€

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