

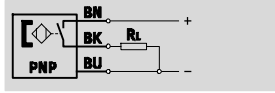
Proximity sensors SMT-10G, for C-slot

Technical data – Magneto-resistive



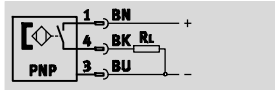
Function

PNP, N/O contact, with cable, 3-wire



- Magneto-resistive measuring principle
- Insertable in slot lengthwise
- Design ideally matched to gripper sensing

PNP, N/O contact, with plug



General technical data	
Design	For C-slot
Based on standard	EN 60947-5-2
Certification	c UL us - Listed (OL)
CE mark (see declaration of conformity)	To EU EMC Directive
Note on materials	Free of copper and PTFE RoHS-compliant

Input signal/measuring element	
Measuring principle	Magneto-resistive
Ambient temperature [°C]	-20 ... +70

Switching output	
Switching output	PNP
Switching element function	N/O contact
Max. output current [mA]	80
Max. switching capacity DC [W]	2.4

Output, additional data	
Protection against short circuit	Pulsed
Protection against overloading	Yes

Electronic components	
Operating voltage range [V DC]	10 ... 30
Reverse polarity protection	For all electrical connections

Electromechanical components		
Type	SMT-10G-...-OE	SMT-10G-...-M8D
Electrical connection	Cable, 3-wire	Cable with plug M8x1, 3-pin, rotatable thread
Connection direction	Lateral	
Cable test conditions	Energy chain: 5 million cycles, bending radius 28 mm Torsional strength: > 300,000 cycles, ±270°/0.1 m Resistance to bending: to Festo standard; test conditions on request	
Cable length [m]	2.5	0.3
Cable properties	Energy chain + robot applications	
Cable sheath material	Thermoplastic polyurethane elastomer	

Mechanical components	
Type of mounting	Clamped in C-slot Insertable in slot lengthwise
Housing material	Reinforced polyamide

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Display/operation	
Switching status display	Yellow LED

Immissions/emissions	
Ambient temperature with flexible cable installation	[-5 ... +70] °C
Protection class	IP65
	IP68

Pin allocation to EN 60947-5-2			
PS			
Plug, 3-pin			
M8x1	Pin	Wire colour	Allocation
	1	Brown	+
	3	Blue	-
	4	Black	Output

Dimensions Download CAD data → www.festo.com

1 LED 3 Holder for inscription label 4 Connecting cable L1 Cable length
2 SMT-10G 5 Plug M8x1

	D1	D2	D3	B1	B2	B3	B4	H1	H2	L2	L3	L4	L5	L6	L7	⊕
SMT-10G-...-OE	2.9	-	-	5.4	5	3.75	3	10	5	25	-	14.4	23	50	2.75	1.5
SMT-10G-...-M5D		M8x1	9.6								41.1					

Ordering data						
	Switching output	Electrical connection		Cable length [m]	Part No.	Type
		Cable	Cable with plug, rotatable thread, M8x1			
N/O contact						
	PNP	3-wire	-	2.5	547862	SMT-10G-PS-24V-E-2,5Q-OE
		-	3-pin	-	0.3	547863