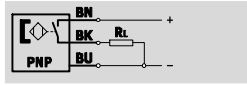


# Proximity sensors SMT-C1, block design, magneto-inductive

Technical data

Function

PNP, N/O contact, with cable

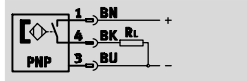


- Magneto-inductive measuring principle
- For standard cylinders DSBF-C or CDN-...-R with sensor strip



Function

PNP, N/O contact, with plug



Technical data	
Design	Block design
Based on standard	EN 60947-5-2
Certification	RCM trademark
CE mark (see declaration of conformity)	To EU EMC Directive <sup>1)</sup>
Note on materials	Cable free of halogen Free of copper and PTFE

1) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: [www.festo.com/sp](http://www.festo.com/sp) → User documentation.  
If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.

Input signal/measuring element	
Measuring principle	Magneto-inductive
Measured variable	Position
Ambient temperature [°C]	-20 ... +70

Switching output	
Switching output	PNP
Switching element function	N/O contact
Switch-on time [ms]	0 ... 0.5
Switch-off time [ms]	0 ... 0.5
Max. output current [mA]	200
Max. switching capacity DC [W]	6
Voltage drop [V]	0 ... 1.8

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

# Proximity sensors SMT-C1, block design, magneto-inductive

Technical data

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

Electromechanical components			
Type	SMT-C1-...-OE	SMT-C1-...-M8D	SMT-C1-...-M12
Electrical connection	Cable, 3-wire	Cable with plug M8x1, 3-pin, rotatable thread	Cable with plug M12x1, 3-pin
Connection direction	In-line		
Cable length	[m]	–	0.3
		5	–
		10	–
Cable sheath materials	TPE-O		
Wire ends	Wire end sleeve		

Mechanical components	
Type of mounting	Clamped
Tightening torque	[Nm] 1.2
Mounting position	Any
Housing materials	High-alloy stainless steel
	Wrought aluminium alloy
	Nickel-plated brass
	PP
	TPE-O
	TPE-U(PU)

Display/operation	
Switching status display	Yellow LED

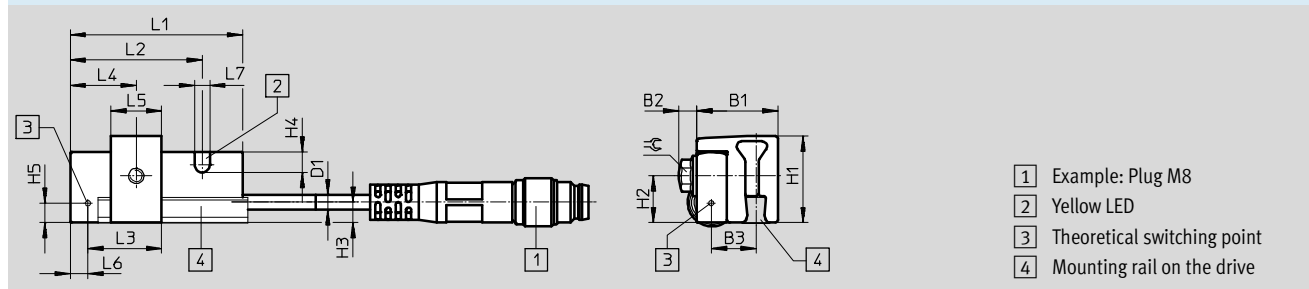
Immissions/emissions	
Ambient temperature with flexible cable installation	[°C] –20 ... +70
Protection class	To IEC 60529
	IP65
	IP68

# Proximity sensors SMT-C1, block design, magneto-inductive

Technical data

Pin allocation to EN 60947-5-2				M12x1, 3-pin			
M8x1, 3-pin				N/O contact			
	Pin	Wire colour	Allocation		Pin	Wire colour	Allocation
	1	Brown	+		1	Brown	+
	3	Blue	-		3	Blue	-
	4	Black	Output		4	Black	Output

**Dimensions** Download CAD data → [www.festo.com](http://www.festo.com)



	B1	B2	B3	D1	H1	H2	H3	H4	H5	L1	L2	L3	L4	L5	L6	L7	≅
SMT-C1	16	3.5	8.8	3	17	9.2	4	4	3.8	34	26	14.5	13	10	3.5	3	5.5

**Ordering data**

	Switching output	Electrical connection		Cable length	Weight	Part No.	Type	
		Cable	Cable with plug					
			M8x1, rotatable thread	M12x1	[m]	[g]		
	N/O contact							
	PNP	3-wire	-	-	5	65.9	571339	SMT-C1-PS-24V-K-5,0-OE
			-	-	10	114.5	571340	SMT-C1-PS-24V-K-10,0-OE
		-	3-pin	-	-	0.3	24.4	571342
-		-	3-pin	-	0.3	32.6	571341	SMT-C1-PS-24V-K-0,3-M12