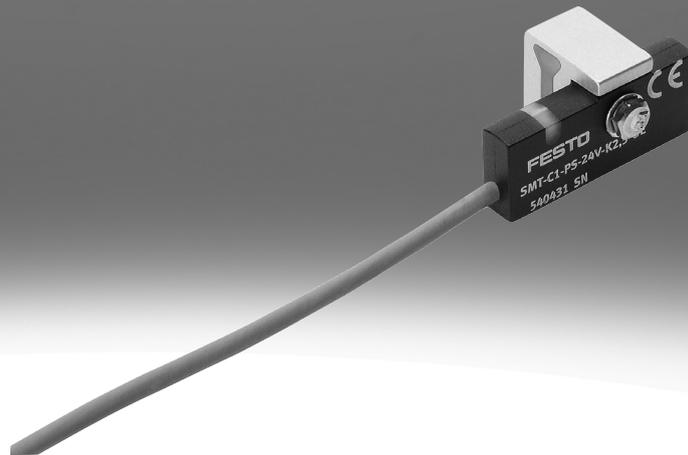


# Proximity switch SMT-C1

**FESTO**



## Type code

<b>001</b>	<b>Series</b>	
<b>SMT-C1</b>	Proximity switch, block design, magneto-inductive	
<b>002</b>	<b>Switching output, switching element function</b>	
<b>PS</b>	PNP, N/O contact, 3-wire	
<b>003</b>	<b>Rated operating voltage</b>	
<b>24V</b>	24 V	
<b>004</b>	<b>Version</b>	
<b>K</b>	Cable	

<b>005</b>	<b>Cable length</b>	
<b>10,0</b>	10.0 m	
<b>5,0</b>	5.0 m	
<b>0,3</b>	0.3 m	
<b>006</b>	<b>Electrical connection</b>	
<b>M8D</b>	Cable with plug M8x1, rotatable thread	
<b>M12</b>	Cable with plug M12x1	
<b>OE</b>	Open end	

## Datasheet

### General technical data

Design	Block design
Mounting position	optional
Based on standard	EN 60947-5-2
Approval	RCM trademark
CE mark (see declaration of conformity)	To EU EMC Directive, In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC, To UK RoHS instructions
Note on materials	RoHS-compliant, Free of halogen
LABS (PWIS) conformity	VDMA24364-B2-L

### Input signal/measuring element

Measured variable	Position
Measuring principle	Magneto-inductive
Ambient temperature	-20 ... 70°C
Ambient temperature with moving cable	-20 ... 70°C

### Switching output

Switching output	PNP
Switching element function	N/O contact
Hysteresis	≤ 2 mm
Repetition accuracy	–
Switch-on time	≤ 0.5 ms
Switch-off time	≤ 0.5 ms
Max. switching frequency	–
Max. output current	200 mA
Max. switching capacity DC	6 W
Voltage drop	< 1.8 V
Inductive protective circuit	Adapted to MZ, MY, ME coils

### Output, additional data

Short circuit current rating	Pulsed
Overload protection	Available

### Electronics

Operational voltage range DC	10 ... 30 V
Residual ripple	10%
Reverse polarity protection	For all electrical connections

### Electromechanical systems

Electrical connection 1, connection type	Cable	Cable with plug
Electrical connection 1, function	Switching output, Power supply	
Electrical connection 1, connector system	Open end	M12x1, A-coded to EN 61076-2-101, M8x1, A-coded, to EN 61076-2-104
Electrical connection 1, number of connections/cores	3	
Electrical connection 1, used connections/cores	3	
Connection outlet orientation	In-line	
Cable length	5 ... 10 m	0.3 m
Cable characteristic	–	
Cable sheath colour	Grey	
Material cable sheath	TPE-O	
Material insulating sheath	–	
Wire ends	Wire ferrule	–

## Datasheet

**Display/operation**

Switching status indication	Yellow LED
-----------------------------	------------

**Mechanics**

Electrical connection 1, connection type	Cable	Cable with plug
Type of mounting	Clamped	
Product weight	65.9 ... 114.5 g	24.4 ... 32.6 g
Material housing	Wrought aluminium alloy, Brass, nickel-plated, PP, TPE-O, TPE-U(PU), High-alloy stainless steel	
Housing colour	Black	

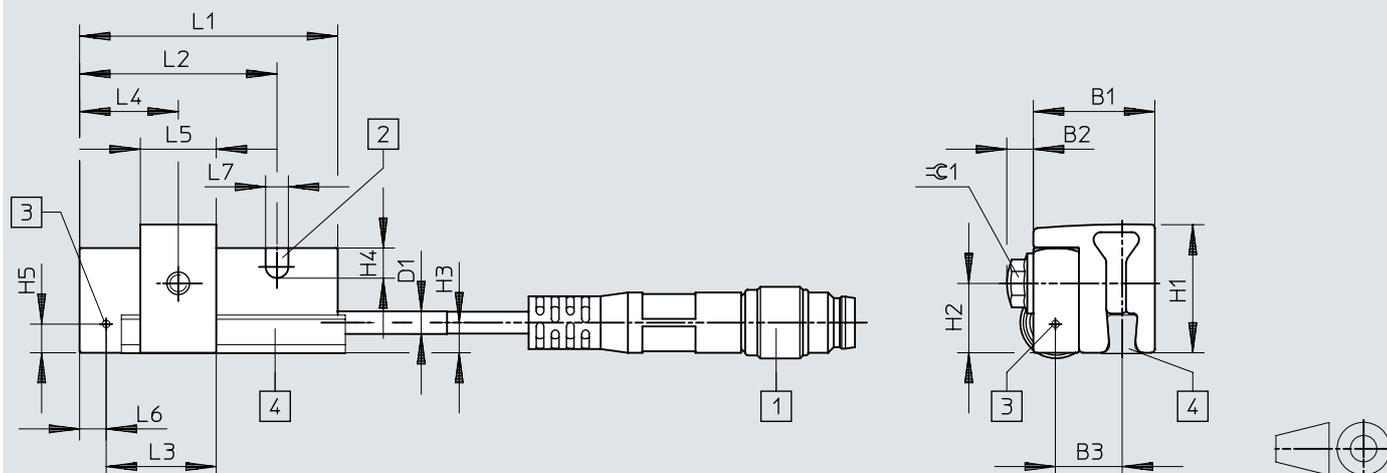
**Immission/emission**

Degree of protection	IP65, IP68, To IEC 60529	
Corrosion resistance class CRC <sup>1)</sup>	2 - Moderate corrosion stress, 3 - high corrosion stress	

1) More information: [www.festo.com/x/topic/crc](http://www.festo.com/x/topic/crc)

## Dimensions

## Dimensions – SMT-C1

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

- [1] Example: M8 plug  
 [2] Yellow light emitting diode  
 [3] Theoretical switching point  
 [4] Attachment rail on the drive

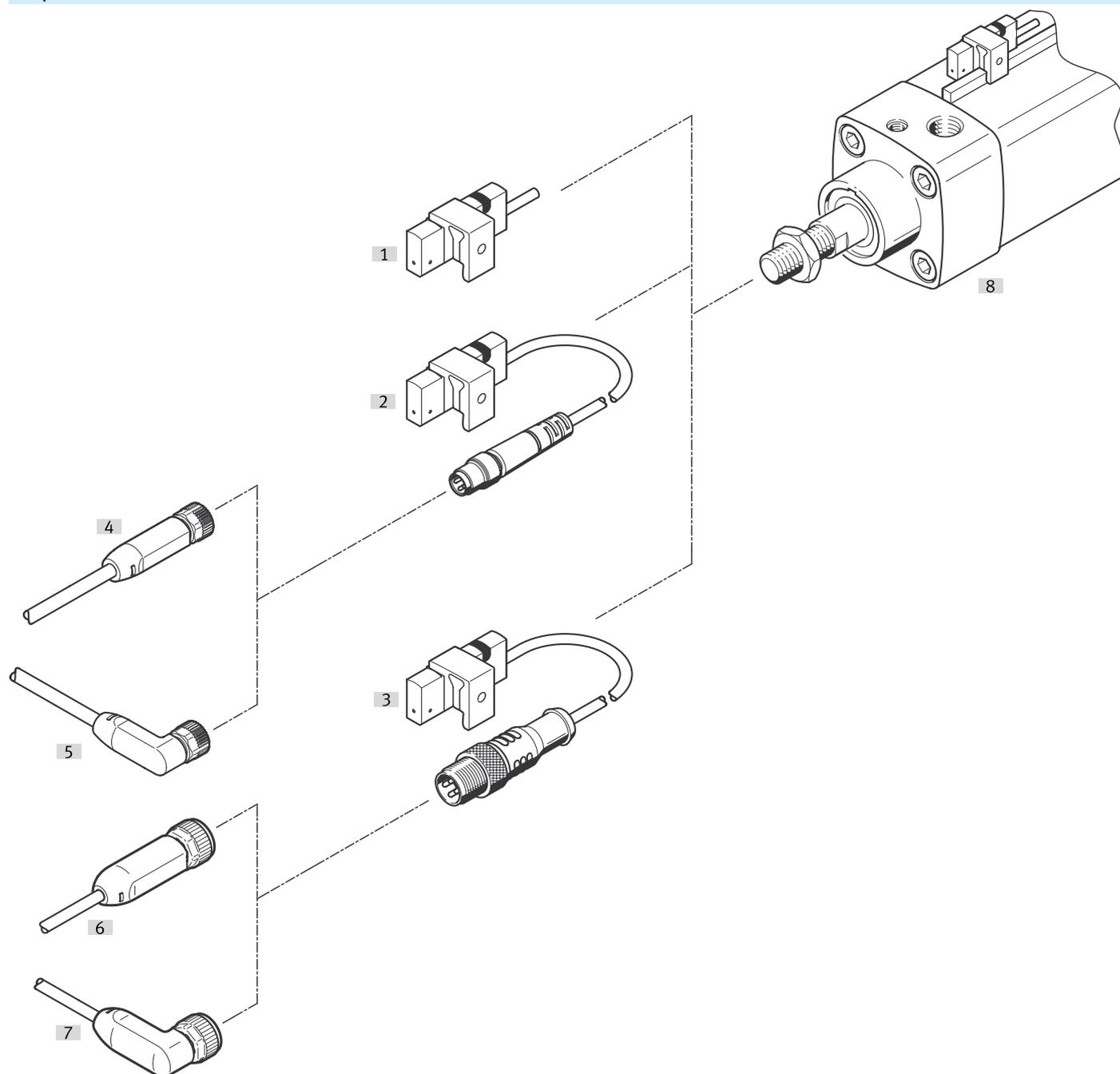
	B1	B2	B3	D1	H1	H2	H3	H4	H5	L1	L2	L3	L4	L5	L6	L7	⌀
SMT-C1	16	3,5	8,8	3	17	9,2	4	4	3,8	34	26	14,5	13	10	3,5	3	5,5

## Ordering data

Ordering data						
	Electrical connection 1, connection type	Electrical connection 1, number of connections/cores	Switching output	Cable length	Part no.	Type
	Cable	3	PNP	5 m	571339	SMT-C1-PS-24V-K-5,0-OE
				10 m	571340	SMT-C1-PS-24V-K-10,0-OE
	Cable with plug			0.3 m	571341	SMT-C1-PS-24V-K-0,3-M12
					571342	SMT-C1-PS-24V-K-0,3-M8D

## Peripherals

## Peripherals overview



Accessories		→ Link
Type/order code	Description	
[1] Proximity switch SMT-C1, magnetic inductive, with cable and clamping piece	Magnetic inductive, with cable and clamping piece	<a href="#">smt-c1</a>
[2] Proximity switch SMT-C1, magneto-inductive, with cable and plug M8x1 and clamping piece	Magnetic inductive, with cable and plug M8x1 and clamping piece	<a href="#">smt-c1</a>
[3] Proximity switch SMT-C1, magneto-inductive, with cable and plug M12x1 and clamping piece	Magnetic inductive, with cable and plug M12x1 and clamping piece	<a href="#">smt-c1</a>
[4] Connecting cable NEBA, socket M8x1, 3-pin, straight	Straight socket, M8x1, 3-pin	9
[5] Connecting cable NEBA, socket M8x1, 3-pin, angled	Angled socket, M8x1, 3-pin	9
[6] Connecting cable NEBA, socket M12x1, 5-pin, straight	Straight socket, M12x1, 5-pin	9

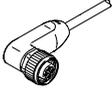
## Peripherals

Accessories		→ Link
Type/order code	Description	
[7] Connecting cable NEBA, socket M12x1, 5-pin, angled	Angled socket, M12x1, 5-pin	<a href="#">9</a>
[8] Standards-based cylinder DSBF-C or CDN-...-R with sensor rail	Ø 32 ... 100 mm	<a href="#">-</a>

## Accessories

Connecting cable NEBA, socket M8x1, 3-pin, angled						
	Connection technology left, field device side	Electrical connection 1, cable outlet	Connection technology right, controller side	Cable length	Part no.	Type
	Socket M8x1 A-coded, EN 61076-2-104	Angled	Open end	2.5 m	8078230	NEBA-M8W3-U-2.5-N-LE3
				5 m	8078231	NEBA-M8W3-U-5-N-LE3

Connecting cable NEBA, socket M8x1, 3-pin, straight						
	Connection technology left, field device side	Electrical connection 1, cable outlet	Connection technology right, controller side	Cable length	Part no.	Type
	Socket M8x1 A-coded, EN 61076-2-104	Straight	Open end	2.5 m	8078223	NEBA-M8G3-U-2.5-N-LE3
				5 m	8078224	NEBA-M8G3-U-5-N-LE3

Connecting cable NEBA, socket M12x1, 5-pin, angled						
	Connection technology left, field device side	Electrical connection 1, cable outlet	Connection technology right, controller side	Cable length	Part no.	Type
	Socket M12x1 A-coded, EN 61076-2-101	Angled	Open end	2.5 m	8078245	NEBA-M12W5-U-2.5-N-LE3
				5 m	8078246	NEBA-M12W5-U-5-N-LE3

Connecting cable NEBA, socket M12x1, 5-pin, straight						
	Connection technology left, field device side	Electrical connection 1, cable outlet	Connection technology right, controller side	Cable length	Part no.	Type
	Socket M12x1 A-coded, EN 61076-2-101	Straight	Open end	2.5 m	8078236	NEBA-M12G5-U-2.5-N-LE3
				5 m	8078237	NEBA-M12G5-U-5-N-LE3