

Proximity switch CRSME0-4

FESTO



Type code

001	Series	
CRSMEO	Proximity sensor	
002	Design type	
4	Round shape, straight housing	
003	Electrical connection, cable length	
K	Cable, 2.5 m	

004	Switching status indication	
LED	Yellow LED	
005	Rated operating voltage	
24	24 V DC	

Datasheet

General technical data

Corrosion-resistant

Magnetic reed measuring principle

Design	Round
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
Inductive protective circuit	Adapted to MZ, MY, ME coils

Input signal/measuring element

Measured variable	Position
Measuring principle	Magnetic reed
Ambient temperature	-20 ... 60°C
Ambient temperature with moving cable	-5 ... 60°C

Switching output

Switching output	Contacting, bipolar
Switching element function	N/O contact
Reproducibility of switching value	—
Repetition accuracy	0.2 mm
Switch-on time	≤0.5 ms
Switch-off time	0.03 ms
Max. output current	500 mA
Max. switching capacity DC	10 W
Max. switching frequency	800 Hz

Output, further data

Short circuit current rating	no
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Electronics

Rated operational voltage DC	24 V
Operational voltage range DC	12 ... 30 V
Short circuit current rating	no
Reverse polarity protection	no

Electromechanics

Electrical connection 1, connection type	Cable
Electrical connection 1, connector system	Open end
Electrical connection 1, number of connections/cores	3
Connection outlet orientation	In-line
Cable length	2.5 m
Material cable sheath	TPE-O
Cable sheath colour	Grey

Mechanics

Type of mounting	With accessories
Product weight	70 g
Material housing	PP
Housing colour	Black

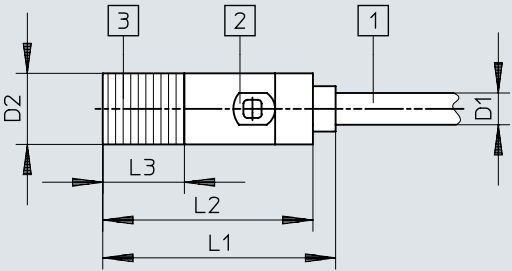
Datasheet

Display/operation	
Switching status indication	Yellow LED
Immission/emission	
Ambient temperature with moving cable	-5 ... 60°C
Degree of protection	IP67
LABS (PWIS) conformity	VDMA24364-B2-L

Dimensions

Dimensions – CRSMEO-4-K- ... -K-LED-24

Download CAD data www.festo.com

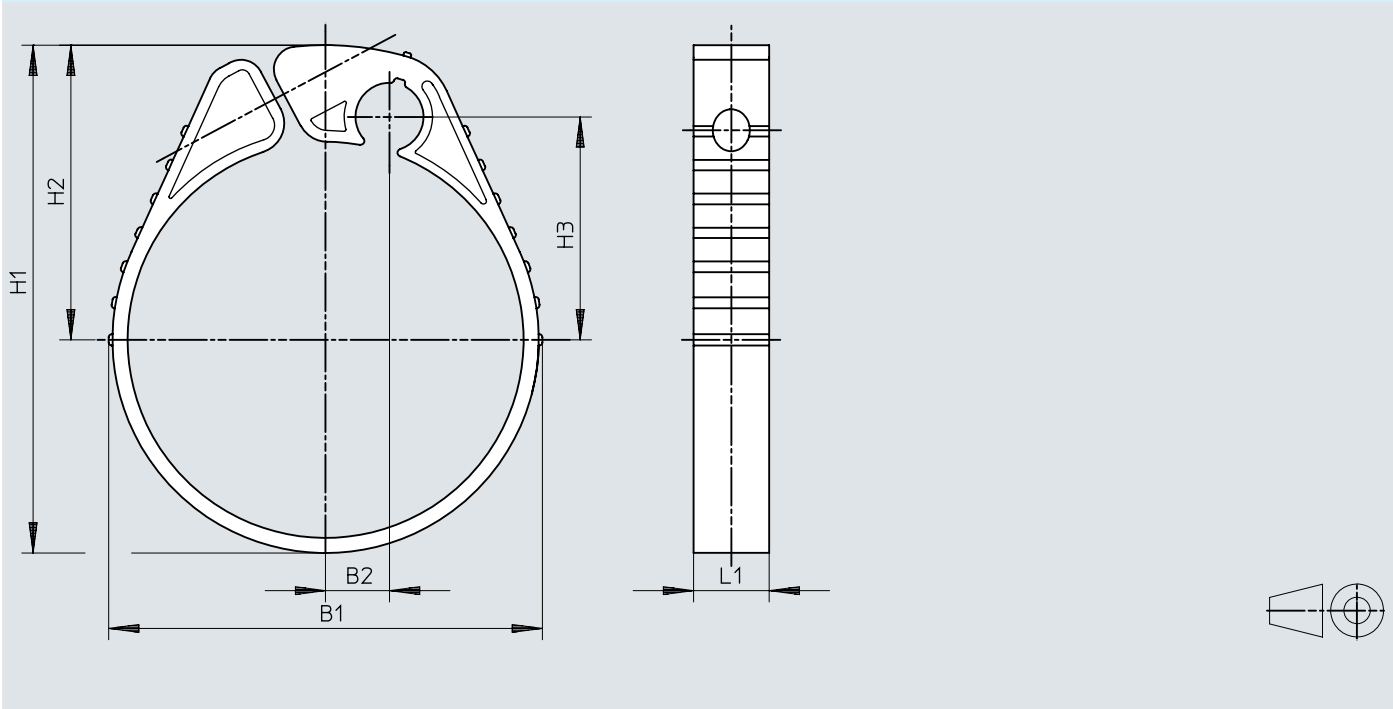


- [1] Connecting cable
- [2] Yellow light emitting diode
- [3] Clamping range

	D1 Ø ±0,2	D2 Ø	L1	L2 ±0,2	L3 ±0,2
CRSMEO-4-K- ... -K-LED-24	4,2	9,4	30,8	27,8	10,8

Dimensions

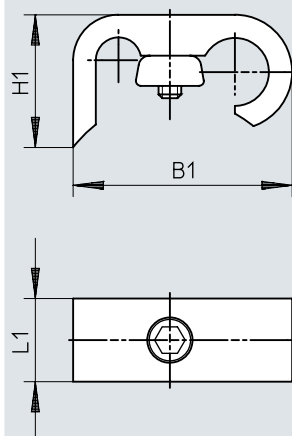
Dimensions – Mounting kit CRSMBR Download CAD data www.festo.com



	B1	B2	H1	H2	H3
CRSMBR-12	22	4,1	28,6	20	10,2
CRSMBR-16	22,3	4	33,2	22,5	12,4
CRSMBR-20	26,5	5,6	35,25	22,5	14
CRSMBR-25	31,5	7,4	40,2	25	16
CRSMBR-32	38,6	7,9	47,8	29	19,7
CRSMBR-40	46,6	8,1	55,8	33	23,8
CRSMBR-50	57,4	8,2	67,2	39	29,5
CRSMBR-63	70,4	8,2	80,8	45,9	36,2

Dimensions

Dimensions – Mounting kit CRSMB

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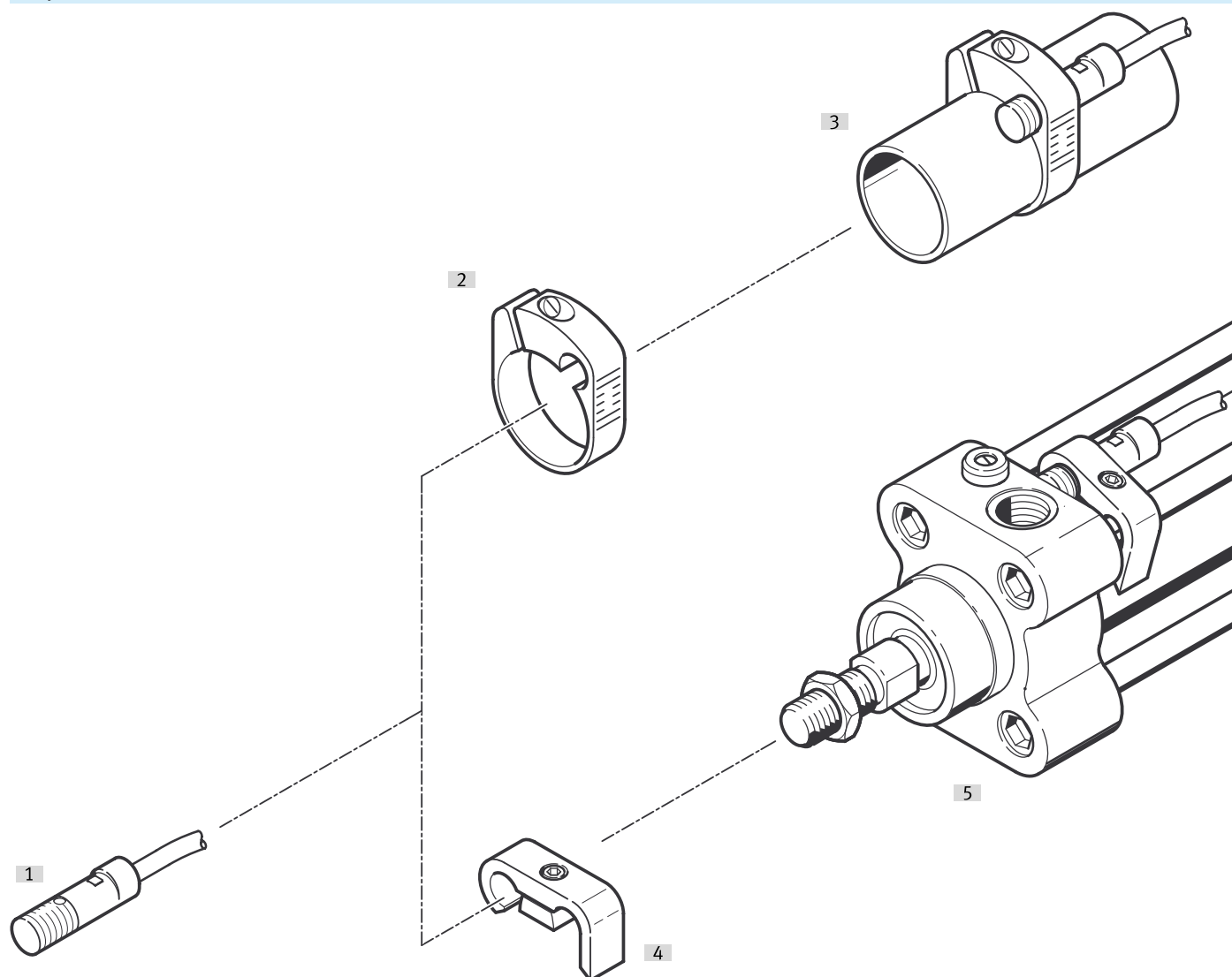
	B1	H1
CRSMB-32	29	17,6
CRSMB-40	29	15,1
CRSMB-50	31,1	17,4
CRSMB-63	31,1	18,1
CRSMB-80	33	24,2
CRSMB-100	33	27,5
CRSMB-125	36,5	31,1

Ordering data

Ordering data				
	Electrical connection 1, number of connections/cores	Cable length	Part no.	Type
	3	2.5 m	161775	CRSMEO-4-K-LED-24

Peripherals

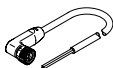
Peripherals overview



Accessories			→ Link
Type/order code	Description		
[1] Proximity switch CRSMEO-4	Magnetic reed, corrosion-resistant, with cable		crsmeo
[2] Mounting kit CRSMBR-...	Corrosion-resistant, for round cylinders		10
[3] Round cylinder	Ø 8 ... 25 mm		-
[4] Mounting kit CRSMB-...	Corrosion-resistant		crsmb
[5] Standards-based cylinder CRDNG, stainless steel	Ø 32 ... 125 mm		-

Accessories

Connecting cable Socket M8x1, 3-pin, angled

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

Connecting cable Socket M8x1, 3-pin, straight

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

Mounting kit CRSMBR

	Size	LABS (PWIS) conformity	Part no.	Type
	12	VDMA24364-B2-L	164581	CRSMBR-12
	16		164582	CRSMBR-16
	20		164583	CRSMBR-20
	25		164584	CRSMBR-25
	32		163888	CRSMBR-32
	40		163889	CRSMBR-40
	50		163890	CRSMBR-50
	63		163891	CRSMBR-63