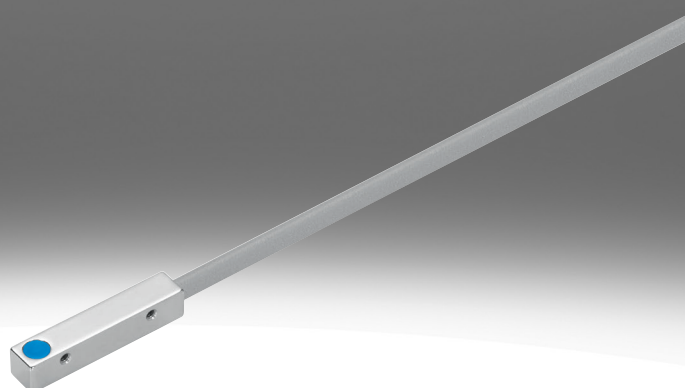


Proximity switch SIES-Q

FESTO



Characteristics

At a glance

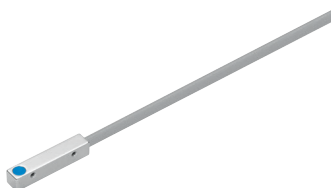
The cylindrical versions are supplemented by square designs in various sizes. Thanks to its design, it can be mounted directly and is therefore extremely space-saving.

- Block design
- Flush mounting
- LED switching status indication

Design

[Q5]

Cube 5 mm



[Q8]

Cube 8 mm



Type code

001	Series	
SIES	Proximity sensor, inductive, special design	
002	Design	
Q5	Cube 5 mm	
Q8	Cube 8 mm	
003	Mounting type	
B	Flush	
004	Switching input/output	
N	NPN	
P	PNP	

005	Switching element function	
O	N/C contact	
S	N/O contact	
006	Electrical connection	
K	Open end	
S	Plug M8x1, 4-pin	
007	Display	
L	Switching status	

Datasheet

General technical data

- Standard switching distance
- For DC voltage
- rectangular design

Size	5x5x25 mm	8x8x40 mm	8x8x59 mm
Conforms to standard	EN 60947-5-2		
Approval	RCM trademark, c UL us listed (OL)		
UKCA marking (see declaration of conformity)	according to UK instructions for EMC (UK-E), according to UK RoHS instructions (UK-R)		
CE mark (see declaration of conformity) ¹⁾	To EU EMC Directive, In accordance with EU RoHS Directive		
Note on materials	–	RoHS-compliant	
LABS (PWIS) conformity	VDMA24364-B2-L		

¹⁾ Please refer to the area of use in the declaration of conformity: www.festo.com/catalogue/sies → Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or industrial environments as well as small businesses, further measures for reducing the emitted interference may be necessary.

Input signal, measuring element

Size	5x5x25 mm	8x8x40 mm	8x8x59 mm
Ambient temperature	-25 ... 70°C		

Switching output

Size	5x5x25 mm	8x8x40 mm	8x8x59 mm
Switching output	NPN, PNP		
Switching element function	N/C contact, N/O contact		
Rated operating distance	0.8 mm	1.5 mm	
Repetition accuracy	0.04 mm	0.07 mm	
Assured operating distance	0.64 mm	1.2 mm	
Reduction factors	Aluminium = 0.4, Stainless steel St 18/8 = 0.7, Copper = 0.3, Brass = 0.4, Steel St 37 = 1.0	Aluminium = 0.45, Stainless steel St 18/8 = 0.8, Copper = 0.4, Brass = 0.55, Steel St 37 = 1.0	
Hysteresis	–		
Max. switching frequency DC	3,000 Hz	1,500 Hz	
Max. output current	200 mA		
Voltage drop	2 V		

Electronics

Electronics			
Size	5x5x25 mm	8x8x40 mm	8x8x59 mm
Operational voltage range DC	10 ... 30 V		
Max. switching frequency	3,000	3,500	
Max. switching frequency DC	3,000	1,500	
Max. output current	200		
Voltage drop	2		
Residual ripple	10%		
No-load supply current	≤10 mA		
Short circuit current rating	Pulsed		
Reverse polarity protection	For all electrical connections		

Datasheet

Electromechanics			
Size	5x5x25 mm	8x8x40 mm	8x8x59 mm
Electrical connection	–		
Electrical connection 1, connection type	Cable		Plugs
Electrical connection 1, connector system	Open end		M8x1, A-coded, to EN 61076-2-104
Electrical connection 1, number of connections/cores	3		
Electrical connection 1, used connections/cores	3		
Electrical connection 1, type of mounting	–		Snap-locking, Screw-type lock, Not rotatable
Electrical connection 1, compatible type of mounting	–		Compatible with latching lock, Compatible with rotatable screw-type lock
Cable length	2.5 m		–
Material cable sheath	TPE-U(PUR)		–

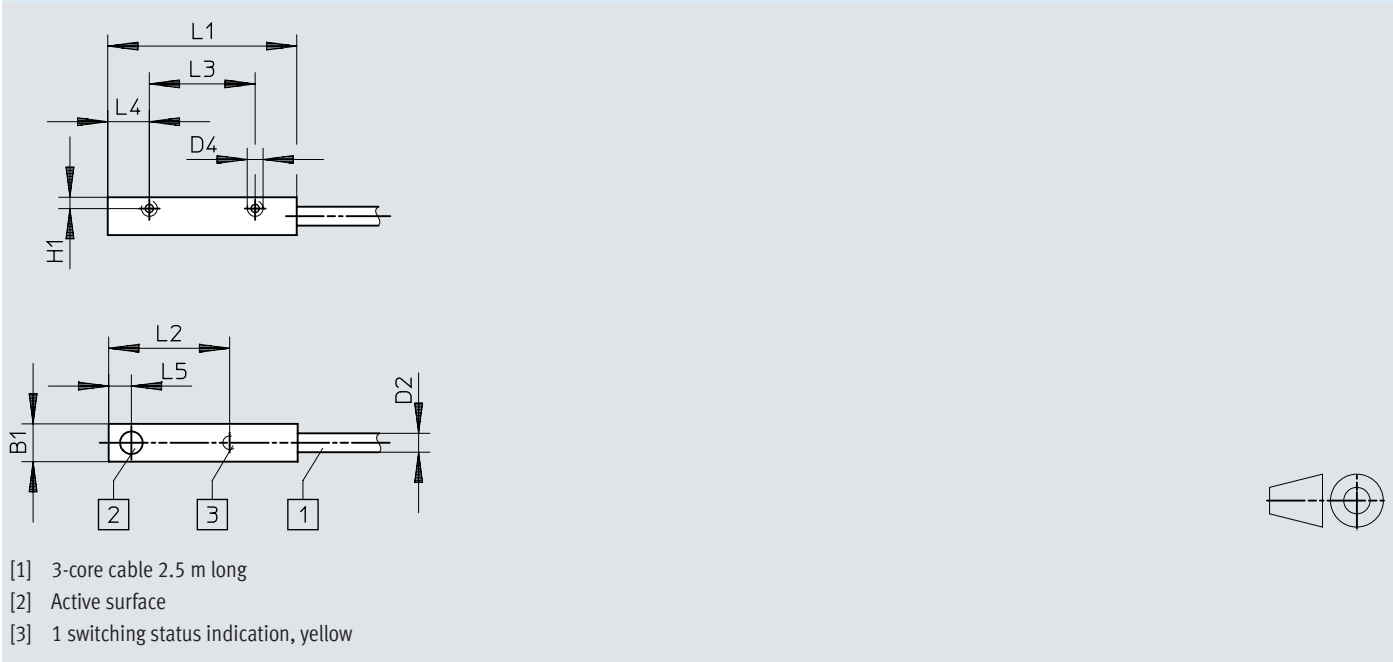
Mechanical system			
Size	5x5x25 mm	8x8x40 mm	8x8x59 mm
Mounting type	Flush		
Type of mounting	Via female thread		
Product weight	22 g	39 g	12 g
Material housing	Brass, Nickel-plated		Die-cast zinc, Chrome-plated, Nickel-plated

Display, operation			
Size	5x5x25 mm	8x8x40 mm	8x8x59 mm
Switching status indication	Yellow LED		

Immission, emission, flush			
Size	5x5x25 mm	8x8x40 mm	8x8x59 mm
Ambient temperature	-25 ... 70°C		
Degree of protection	IP67		
LABS (PWIS) conformity	VDMA24364-B2-L		

Dimensions

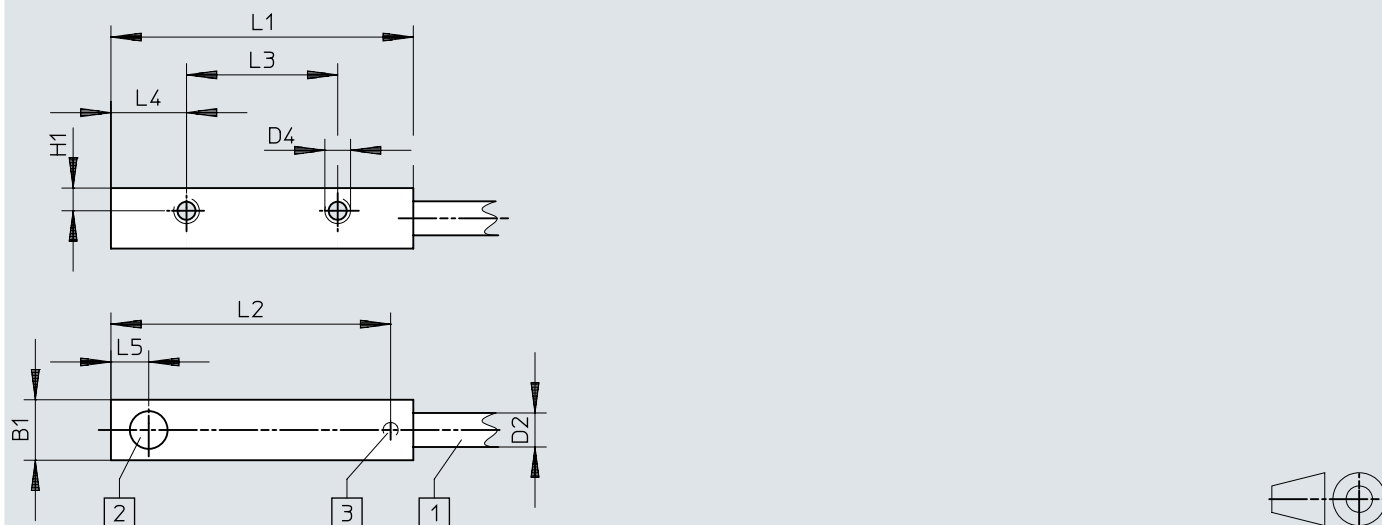
Dimensions – SIES-Q5B, cable Download CAD data www.festo.com



	B1	D2 ø	D4	H1	L1	L2	L3	L4	L5
SIES-Q5B-...-K-L	5	2,5	M1,6	1,5	25	16	14	5,5	3

Dimensions

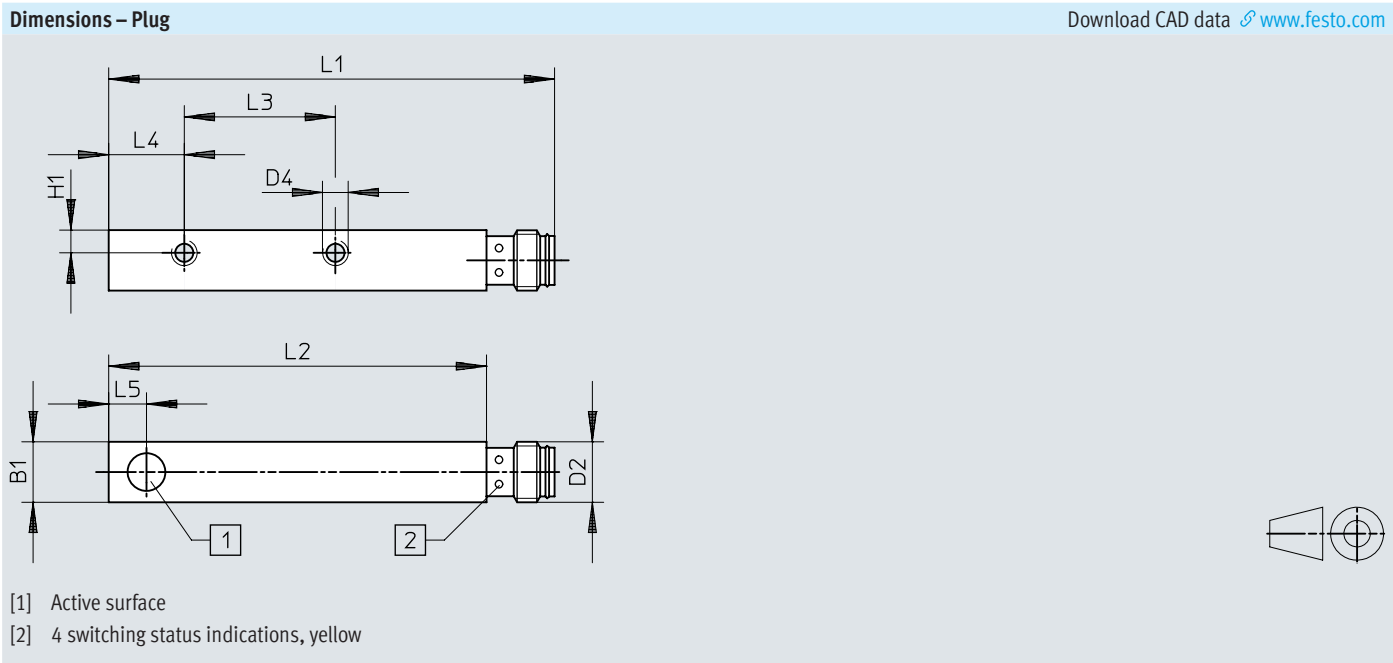
Dimensions – SIES-Q8B, cable

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


- [1] 3-core cable 2.5 m long
- [2] Active surface
- [3] 1 switching status indication, yellow

	B1	D2 Ø	D4	H1	L1	L2	L3	L4	L5
SIES-Q8B-...-K-L	8	3,5	M3	3	40	37	20	10	5

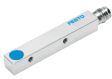
Dimensions



	B1	D2	D4	H1	L1	L2	L3	L4	L5
SIES-Q8B-...-S-L	8	M8x1	M3	3	59	50	20	10	5

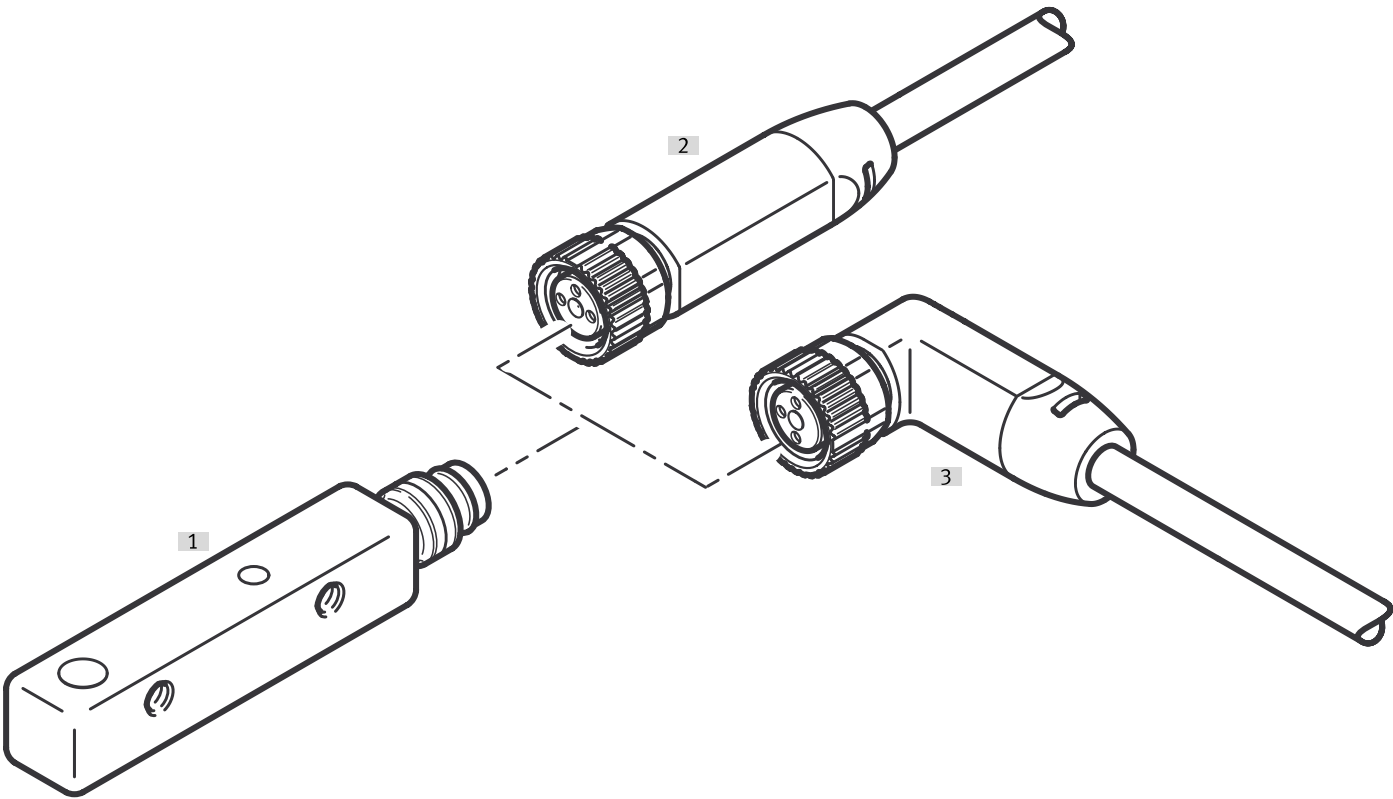
Ordering data

Ordering data M12						
	Rated operating distance	Mounting type	Switching output	Switching element function	Part no.	Type
	0.8 mm	Flush	NPN	N/O contact	178290	SIES-Q5B-NS-K-L
			PNP	N/C contact	174549	SIES-Q5B-PO-K-L
				N/O contact	178291	SIES-Q5B-PS-K-L

Ordering data M18						
	Rated operating distance	Mounting type	Switching output	Switching element function	Part no.	Type
	1.5 mm	Flush	NPN	N/O contact	178293	SIES-Q8B-NS-S-L
					178292	SIES-Q8B-NS-K-L
			PNP	N/C contact	174552	SIES-Q8B-PO-K-L
					174553	SIES-Q8B-PO-S-L
				N/O contact	178294	SIES-Q8B-PS-K-L
					178295	SIES-Q8B-PS-S-L

Peripherals

Peripherals overview SIES-Q8



Accessories		→ Link
Type/order code	Description	
[1] Proximity switch SIES-Q8B-...	–	sies-q8
[2] Connecting cables NEBA	Straight socket	11
[3] Connecting cables NEBA	Angled socket	11

Accessories

Connecting cable M8x1, straight socket

	Cable structure	Cable length	Product weight	Part no.	Type
	3 x 0.25 mm ²	0.5 m	17 g	8078282	NEBA-M8G3-U-0.5-N-M8G3
			23 g	8078278	NEBA-M8G3-U-0.5-N-M12G3
		1 m	22 g	8078222	NEBA-M8G3-U-1-N-LE3
			26 g	8078283	NEBA-M8G3-U-1-N-M8G3
			33 g	8078279	NEBA-M8G3-U-1-N-M12G3
		1.5 m	35 g	8078284	NEBA-M8G3-U-1.5-N-M8G3
		2 m	44 g	8078285	NEBA-M8G3-U-2-N-M8G3
		2.5 m	49 g	8078264	NEBA-M8CG3-U-2.5-N-LE3
			50 g	8078223	NEBA-M8G3-U-2.5-N-LE3
			54 g	8078286	NEBA-M8G3-U-2.5-N-M8G3
			60 g	8078280	NEBA-M8G3-U-2.5-N-M12G3
		5 m	95 g	8078265	NEBA-M8CG3-U-5-N-LE3
			96 g	8078224	NEBA-M8G3-U-5-N-LE3
			100 g	8078287	NEBA-M8G3-U-5-N-M8G3
			107 g	8078281	NEBA-M8G3-U-5-N-M12G3
		10 m	188 g	8078225	NEBA-M8G3-U-10-N-LE3
			192 g	8078288	NEBA-M8G3-U-10-N-M8G3
		20 m	373 g	8078226	NEBA-M8G3-U-20-N-LE3

Connecting cable M8x1, angled socket

	Cable structure	Cable length	Product weight	Part no.	Type
	3 x 0.25 mm ²	0.5 m	17 g	8078298	NEBA-M8W3-U-0.5-N-M8G3
		1 m	26 g	8078299	NEBA-M8W3-U-1-N-M8G3
		2.5 m	49 g	8078266	NEBA-M8CW3-U-2.5-N-LE3
			50 g	8078230	NEBA-M8W3-U-2.5-N-LE3
			54 g	8078300	NEBA-M8W3-U-2.5-N-M8G3
		5 m	95 g	8078267	NEBA-M8CW3-U-5-N-LE3
			96 g	8078231	NEBA-M8W3-U-5-N-LE3
			100 g	8078301	NEBA-M8W3-U-5-N-M8G3
		10 m	189 g	8078232	NEBA-M8W3-U-10-N-LE3