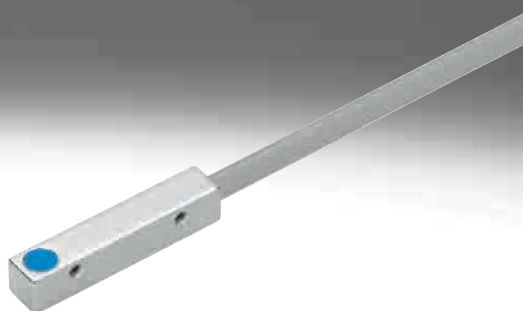


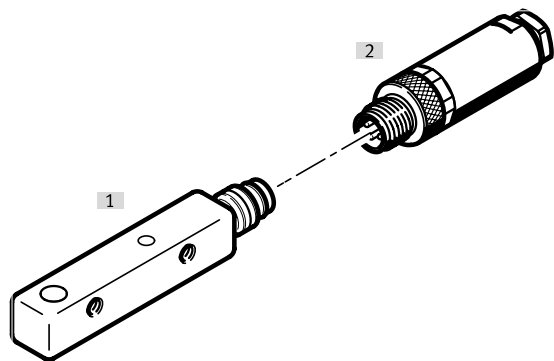
Proximity switches SIES, inductive

FESTO

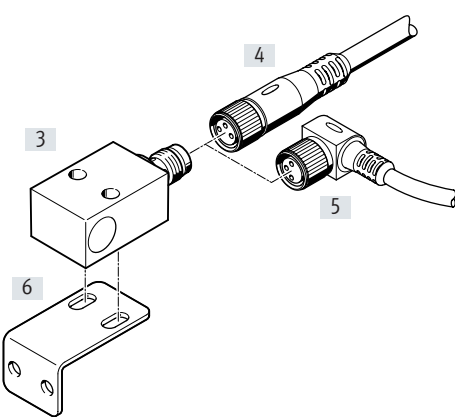


Peripherals overview

SIES-Q8



SIES-V3B



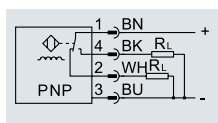
Mounting attachments and accessories		→ Page
[1]	Proximity sensor SIES-Q5B-...	4
[2]	Plug SEA-3GS-M8-S	9
[3]	Proximity sensor SIES-V3B-PS-S-L	4
[4]	Connecting cable, straight socket NEBU-M8G3-...	9
[5]	Connecting cable, angled socket NEBU-M8W3-...	9
[6]	Mounting bracket HV-M5	9

Type codes

001	Series	
SIES	Proximity sensor, inductive, special design	
002	Design	
Q5	Cube 5 mm	
Q8	Cube 8 mm	
Q40	Cube 40 mm	
V3	Cube 15x 20 mm	
003	Mounting type	
B	Flush	
004	Switching input/output	
N	NPN	
P	PNP	

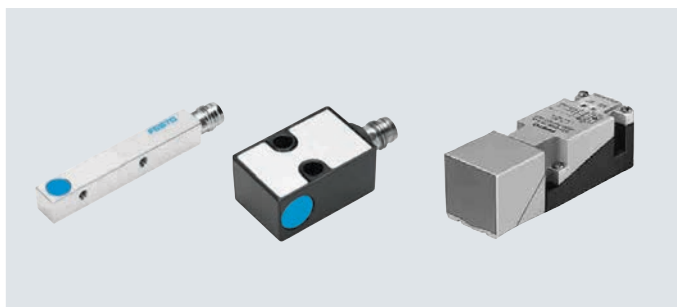
005	Switching element function	
A	Antivalent	
O	N/C contact	
S	N/O contact	
006	Electrical connection	
K	Open end	
S	Plug M8x1, 4-pin	
X	Screw terminals	
007	Display	
L	Switching status	
2L	Switching status and ready status	

Technical data – Standard switching distance, special design

Function¹⁾

1) e.g. antivalent with PNP output and terminal

- Standard switching distance
- For DC voltage
- Cuboid-shaped design



General technical data	SIES-Q5	SIES-Q8	SIES-V3	SIES-Q40
Conforms to standard	EN 60947-5-2			
Certification	c UL us Listed (OL)			
	RCM			
CE marking (see declaration of conformity)	To EU EMC Directive ¹⁾			
Note on materials	Free of copper and PTFE			
	–			

1) For information about the area of use, see the EC declaration of conformity at: www.festo.com/catalogue/SIES → Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

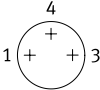
Input signal/measuring element				
Type	SIES-Q5	SIES-Q8	SIES-V3	SIES-Q40
Size [mm]	5x5x25	8x8x40	15x20x30	40x40x120
Ambient temperature [°C]	–25 ... +70		–25 ... +85	

Output, general				
Type	SIES-Q5	SIES-Q8	SIES-V3	SIES-Q40
Size [mm]	5x5x25	8x8x40	15x20x30	40x40x120
Repetition accuracy [mm]	0.04	0.07	0.1	0.75

Switching output				
Type	SIES-Q5	SIES-Q8	SIES-V3	SIES-Q40
Size [mm]	5x5x25		15x20x30	
	8x8x40		40x40x120	
Switching output	PNP		PNP	PNP
	NPN		NPN	–
Switching element function	N/O		N/O	Antivalent
	N/C		–	
Rated operating distance [mm]	0.8	1.5	2	15
Actual operating distance [mm]	0.64	1.2	1.6	12

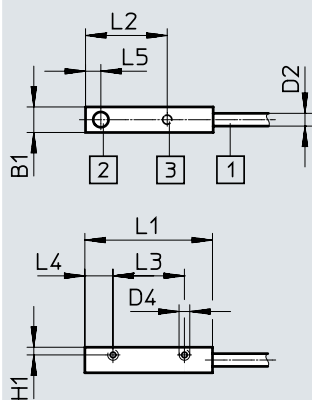
Reduction factors				
Aluminium	0.4	0.45	0.45	0.3
Stainless steel St 18/8	0.7	0.8	0.7	0.7
Copper	0.3	0.4	0.3	0.25
Brass	0.4	0.55	0.5	0.3
Steel St 37	1.0		1.0	1.0
Max. switching frequency DC [Hz]	3000	3500	1200	100
Max. output current [mA]	200		–	–
Max. output current at ≤ 50°C [mA]	–		200	200
Max. output current at ≤ 85°C [mA]	–		150	150
Voltage drop [V]	≤ 2		≤ 3.2	≤ 3.5

Technical data – Standard switching distance, special design

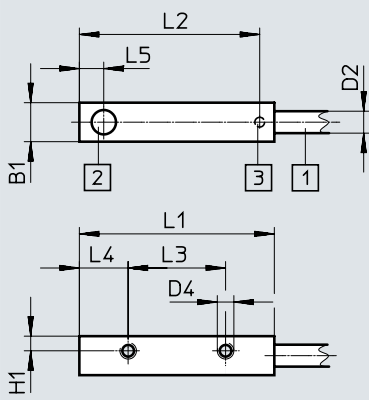
Output, additional data					
Short circuit current rating		Pulsed			
Electronics					
Type		SIES-Q5	SIES-Q8	SIES-V3	SIES-Q40
Size	[mm]	5x5x25	8x8x40	15x20x30	40x40x120
Operating voltage range	[V DC]	10 ... 30			10 ... 34
Residual ripple	[%]	10			
No-load supply current	[mA]	≤ 10		≤ 30	≤ 40
Reverse polarity protection	For all electrical connections				
Electromechanics					
Electrical connection		Cable		Plug	
Type		SIES-Q5	SIES-Q8	SIES-Q8	SIES-V3
Size	[mm]	5x5x25	8x8x40	8x8x40	15x20x30
Electrical connection		Cable, 3-wire		Plug, M8x1, 3-pin	
Cable length	[m]	2.5		–	
Information on materials: Cable sheath		TPE-U (PUR)		–	
Mechanical system					
Type		SIES-Q5	SIES-Q8	SIES-V3	SIES-Q40
Size	[mm]	5x5x25	8x8x40	15x20x30	40x40x120
Type of mounting		With female thread		Via through-hole	
Type of installation		Flush		Flush	
Product weight	[g]	22	15	120	230
Information on materials: Housing		Nickel-plated brass	Chrome-plated die-cast zinc	Die-cast zinc	PBT, PA
Display/operation					
Type		SIES-Q5	SIES-Q8	SIES-V3	SIES-Q40
Size	[mm]	5x5x25	8x8x40	15x20x30	40x40x120
Ready status indication		–			Green LED
Switching status indication		Yellow LED			Yellow LED
Immission/emission					
Type		SIES-Q5	SIES-Q8	SIES-V3	SIES-Q40
Size	[mm]	5x5x25	8x8x40	15x20x30	40x40x120
Degree of protection		IP67			IP65
Pin allocation to EN 60947-5-2					
M8x1, 3-pin					
N/O contact / N/C contact					
	Pin	Wire colour		Allocation	
	1	Brown		+	
	3	Blue		–	
	4	Black		Output	

Technical data – Standard switching distance, special design

Dimensions

SIES-Q5B
Cable

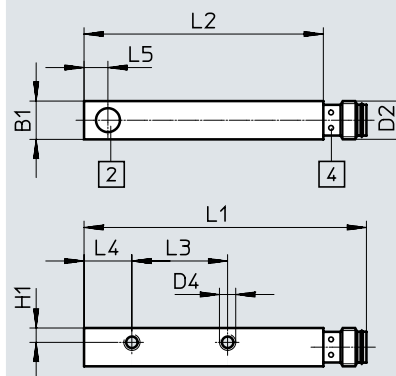
- [1] 3-wire cable, 2.5 m long
 [2] Active surface
 [3] 1 switching status indication, yellow

SIES-Q8B
Cable

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

Download CAD data → www.festo.com

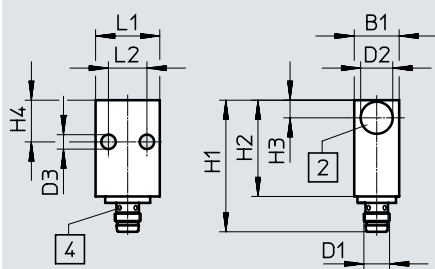
Plug



- [2] Active surface
 [4] 4 switching status indications, yellow

Type	B1	D2 ∅	D2	D4	H1	L1	L2	L3	L4	L5
SIES-Q5B-...-K-L	5	2.5	–	M1.6	1.5	25	16	14	5.5	3
SIES-Q8B-...-K-L	8	3.5	–	M3	3	40	37	20	10	5
SIES-Q8B-...-S-L	8	–	M8x1	M3	3	59	50	20	10	5

Dimensions

SIES-V3B
Plug

- [2] Active surface
 [4] 4 switching status indications, yellow

Download CAD data → www.festo.com

Type	B1	D1 ∅	D1	D2 ∅	D3 ∅	H1	H2	H3	H4	L1	L2	L3	L4	L5
SIES-V3B-...-S-S-L	15	–	M8x1	10	4.5	42	30	5.5	13	20	12	–	–	–
SIES-QB-P-...-K-L	12	4.5	–	–	3.2	26	17	4	–	40	32	6.5	4	6

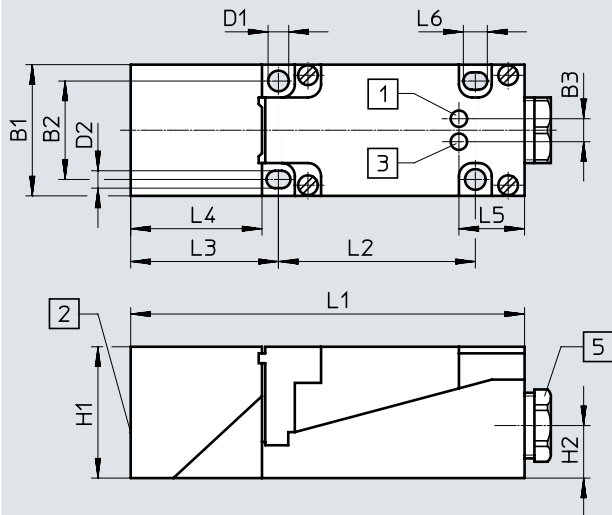
Technical data – Standard switching distance, special design

Dimensions

Download CAD data → www.festo.com

SIES-Q40B

Plug

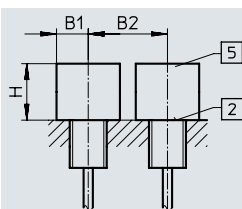


- [1] Operating status indicator, green
- [2] Sensing face at front as supplied: sensor head can be adjusted into a total of 5 sensing directions
- [3] Switching status indication LED, yellow
- [5] M20x1.5, suitable for cable diameter 7.5 mm to 12.5 mm

Type	B1	B2	B3	D1 ∅	D2 ∅	H1	H2	L1	L2	L3	L4	L5	L6
SIE-Q40B-PA-X-2L	40	30	7	5.3	5.3	40	16	120	60	45	40	20	7.3

Fitting instructions

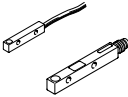
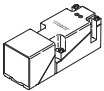
Flush installation



- [2] Active surface
- [5] Metal-free zone

Size	B1	B2	H
5x5x25	2.5	5	2
8x8x40	4	12	3
15x20x30	6	12	5
40x40x120	25	75	30

Technical data – Standard switching distance, special design

Ordering data								
Size	S _n ¹⁾	Type of installation	Switching output	Switching element function	Electrical connection		Plug	
[mm]	[mm]				Cable		Part No.	Type
					Part No.	Type	Part No.	Type
5x5x25								
	0.8	Flush	PNP	N/O	178291	SIES-Q5B-PS-K-L	–	
				N/C	174549	SIES-Q5B-PO-K-L		
			NPN	N/O	178290	SIES-Q5B-NS-K-L		
				N/C	174548	SIES-Q5B-NO-K-L		
8x8x40								
	1.5	Flush	PNP	N/O	178294	SIES-Q8B-PS-K-L	178295	SIES-Q8B-PS-S-L
				N/C	174552	SIES-Q8B-PO-K-L	174553	SIES-Q8B-PO-S-L
			NPN	N/O	178292	SIES-Q8B-NS-K-L	178293	SIES-Q8B-NS-S-L
				N/C	174550	SIES-Q8B-NO-K-L	174551	SIES-Q8B-NO-S-L
15x20x30								
	2.0	Flush	PNP	N/O	–		150491	SIES-V3B-PS-S-L
			NPN				150490	SIES-V3B-NS-S-L
40x40x120								
	15.0	Flush	PNP	Antivalent	–		150492	SIES-Q40B-PA-X-2L ²⁾

1) S_n Rated operating distance [mm]

2) Electrical connection via screw terminals

Accessories

Ordering data – Connecting cables M8x1			Technical data → Internet: nebu	
	Number of wires	Cable length [m]	Part No.	Type
Straight socket				
	3	2.5	★ 541333	NEBU-M8G3-K-2.5-LE3
		5	★ 541334	NEBU-M8G3-K-5-LE3
Angled socket				
	3	2.5	★ 541338	NEBU-M8W3-K-2.5-LE3
		5	★ 541341	NEBU-M8W3-K-5-LE3
Ordering data – Plug				
			Part No.	Type
	For SIES-Q8-... and SIES-V3B-...		192009	SEA-3GS-M8-S
Ordering data – Mounting components				
	For size		Part No.	Type
	Mounting bracket for SIES-V3B		9634	HV-M5

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