

Signal converters SVE4

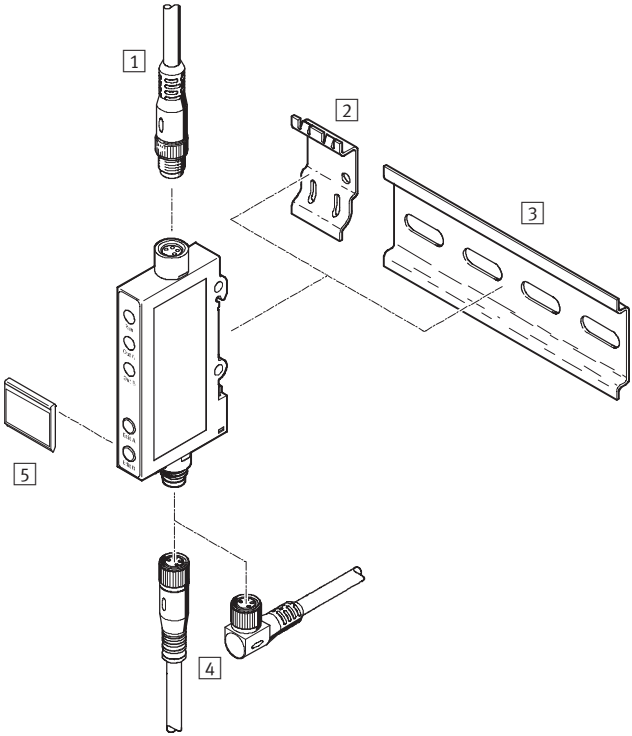


Signal converters SVE4

Product range and peripherals overview

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Product range overview						
Type	Signal range	Switching output	Switching function	Electrical connection		→ Page/ Internet
				Input	Output	
SVE4-US	0 ... 10 V	2x PNP	Freely programmable	Socket M8x1, 4-pin, to EN 60947-5-2	Plug M8x1, 4-pin, to EN 60947-5-2	4
SVE4-IS	0 ... 20 mA	2x NPN				
SVE4-HS	Adapted for position sensors SMH-S1-HG					

Overview of peripherals		
		Mounting attachments and accessories
		→ Page/ Internet
		1 Connecting cable for signal input NEBU
		2 Adapter plate SXE3-W
		3 Mounting rail to DIN EN 60715 NRH-35-2000
		4 Connecting cable for switching output NEBU
		5 Inscription label holder SXE3 (included in the scope of delivery)

Signal converters SVE4

Type codes

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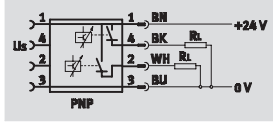
		SVE4	-	US	-	R	-	H	M8	-	2P	-	M8
Type													
SVE4	Signal converter												
Signal range													
US	0 ... 10 V												
IS	0 ... 20 mA												
HS	Adapted for position sensors SMH-S1-HG												
Display and operation													
R	Switching status display via LED, teach-in buttons												
Mounting													
H	H-rail mounting												
Electrical connection (signal input)													
M8	Socket M8x1, 4-pin												
Switching output													
2P	2x PNP												
2N	2x NPN												
Electrical connection (switching output)													
M8	Plug M8x1, 4-pin												

Signal converters SVE4

Technical data

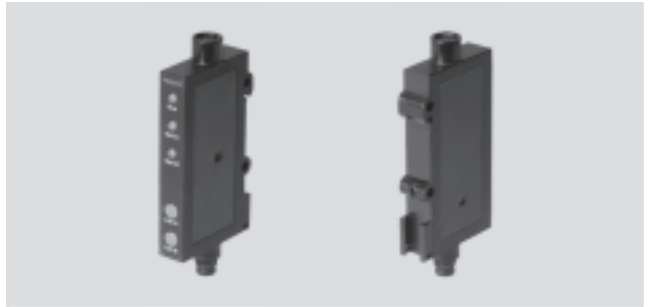
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Function



E.g. with switching output 2x PNP and signal range 0 ... 10 V

- Switching function freely programmable
- Choice of switching functions (NO/NC)
- Switching points can be taught in
- Mounting via H-rail or adapter plate



General technical data	
Certification	cULus listed (OL) C-Tick
UL temperature rating [°C]	-20 ... 60
CE mark (see declaration of conformity) ¹⁾	To EU EMC Directive
Note on materials	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 → Support → 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			
Type	SVE4-US	SVE4-IS	SVE4-HS
Signal range	0 ... 10 ± 0.3 V	0 ... 20 ± 0.6 mA	Adapted for position sensors SMH-S1-HG
Ambient temperature [°C]	-20 ... +70		

Switching output	
Switching output	2x PNP 2x NPN
Switching function	Freely programmable
Switching element function	Switchable

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

Electronic components			
Type	SVE4-US	SVE4-IS	SVE4-HS
Operating voltage range [V DC]	10 ... 30		
Reverse polarity protection	For all electrical connections		For operating voltage and switching outputs

Electromechanical components	
Electrical connection, input	Socket M8x1, 4-pin, to EN 60947-5-2
Electrical connection, output	Plug M8x1, 4-pin, to EN 60947-5-2

Mechanical components	
Product weight [g]	19
Information on housing materials	ABS

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Technical data

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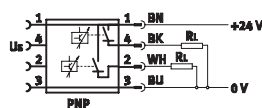
Display/operation	
Setting options	Teach-in
Immissions/emissions	
Protection class	IP65
Corrosion resistance class CRC ¹⁾	2

1) Corrosion resistance class 2 according to Festo standard 940 070

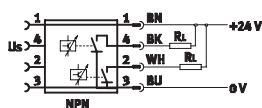
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Signal range 0 ... 10 V¹⁾

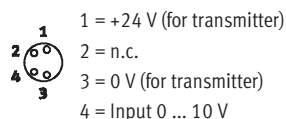
Switching output 2x PNP



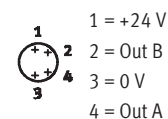
Switching output 2x NPN



Pin allocation for input

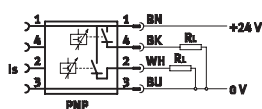


Pin allocation for output

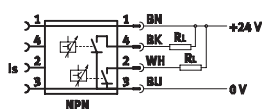


Signal range 0 ... 20 mA¹⁾

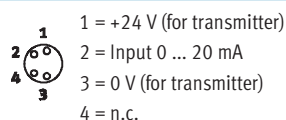
Switching output 2x PNP



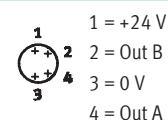
Switching output 2x NPN



Pin allocation for input

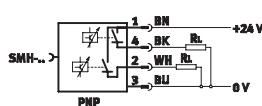


Pin allocation for output

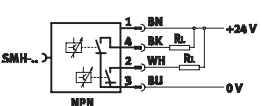


Signal range adapted for position sensors SMH-S1-HG...¹⁾

Switching output 2x PNP



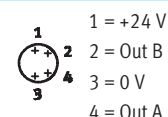
Switching output 2x NPN



Pin allocation for input

Adapted for position sensors
SMH-S1-HG

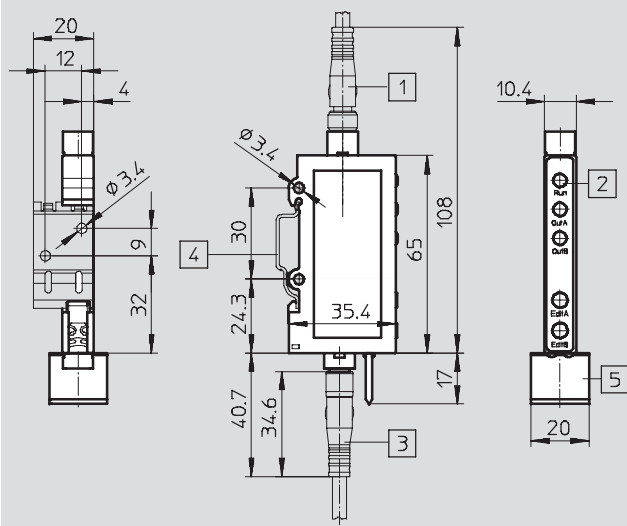
Pin allocation for output



1) Core colours indicated apply when using plug sockets with cable NEBU-M8 or SIM-M8

Dimensions

Download CAD Data → www.festo.com/us/cad

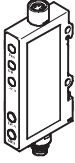


- 1 Plug M8x1 to EN 60947-5-2
- 2 LED display
- 3 Socket M8x1 to EN 60947-5-2
- 4 Adapter plate for wall mounting
- 5 Inscription label holder

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Technical data

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Ordering data				
Version	Signal range	Switching output PNP		Switching output NPN
		Part No.	Type	Part No. Type
	0 ... 10 ± 0.3 V	544217	SVE4-US-R-HM8-2P-M8	544220 SVE4-US-R-HM8-2N-M8
	0 ... 20 ± 0.6 mA	544218	SVE4-IS-R-HM8-2P-M8	544221 SVE4-IS-R-HM8-2N-M8
	Adapted for position sensors SMH-S1-HG	544216	SVE4-HS-R-HM8-2P-M8	544219 SVE4-HS-R-HM8-2N-M8

Signal converters SVE4

Accessories

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Ordering data – Connecting cables for signal input				Technical data → Internet: nebu
	Number of wires	Cable length [m]	Part No.	Type
M8x1, straight plug				
	4	2.5	554033	NEBU-M12G5-E-2.5-W3-M8G4-V2 ¹⁾
			554034	NEBU-M12G5-E-2.5-W2-M8G4-V1 ²⁾
			554035	NEBU-M8G4-K-2.5-M8G4 ³⁾
			554036	NEBU-M12G5-K-2.5-M8G4 ⁴⁾
			554037	NEBU-M8G3-K-2.5-M8G4 ⁴⁾

- 1) For connecting signal converter SVE4-US to pressure transmitter SDET-....U.
 2) For connecting signal converter SVE4-IS to pressure transmitter SDET-....I.
 3) For connecting to position transmitter SMAT-8M.
 4) For connecting to proximity sensor SIEA.

Ordering data – Connecting cables for switching output					Technical data → Internet: nebu
	Number of wires	Cable length [m]	Part No.	Type	
M8x1, straight socket					
	4	2.5	541342	NEBU-M8G4-K-2.5-LE4	
		5	541343	NEBU-M8G4-K-5-LE4	
M8x1, angled socket					
	4	2.5	541344	NEBU-M8W4-K-2.5-LE4	
		5	541345	NEBU-M8W4-K-5-LE4	

Note

User-friendly configurator for easy selection of connecting cables NEBU
 → www.festo.com/catalog

Ordering data		
	Part No.	Type
Adapter plate		
	540214	SXE3-W
Mounting rail		
	35430	NRH-35-2000

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A Complete Suite of Automation Services

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Custom Automation Components
Complete custom engineered solutions



Custom Control Cabinets
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The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



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Electromechanical actuators, motors, controllers & drives



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Pneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices
PLC's, operator interfaces, sensors and I/O devices

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

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Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

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