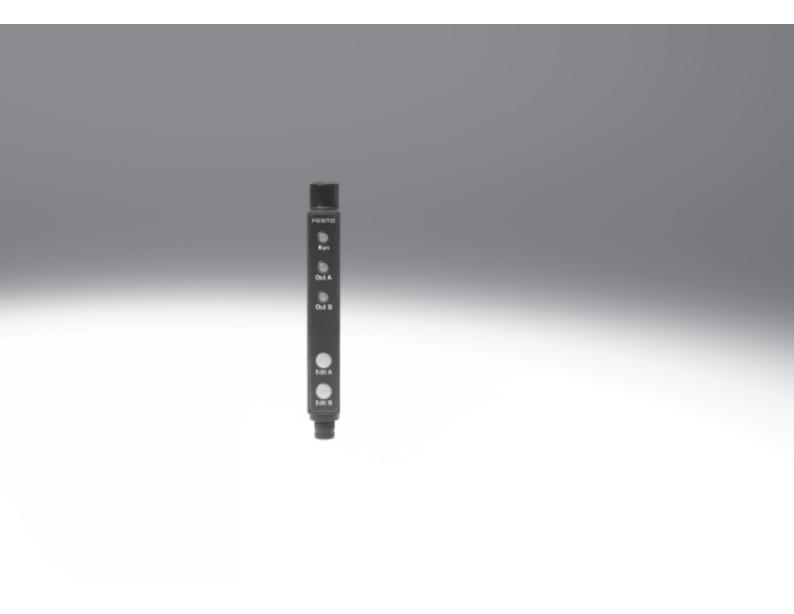
Signal converters SVE4

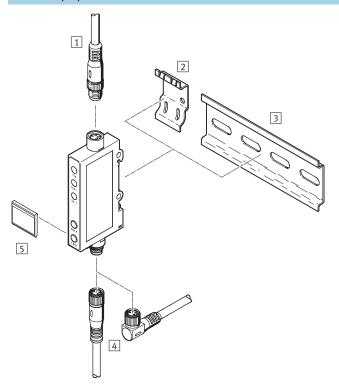




Signal converters SVE4 Product range and peripherals overview

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

Overview of peripherals



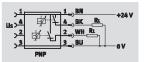
Mou	nting attachments and accessories	→ Page/ Internet
1	Connecting cable for signal input	7
	NEBU	
2	Adapter plate	7
	SXE3-W	
3	Mounting rail to DIN EN 60715	7
	NRH-35-2000	
4	Connecting cable for switching output	7
	NEBU	
5	Inscription label holder SXE3	-
	(included in the scope of delivery)	

Signal converters SVE4 Type codes

	SVE4	-	US]-	R] -	Н	M8] -	2P	- [M8
Туре												
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											
Mount	ing											
Н	H-rail mounting							1				
Electri	cal connection (signal input)											
M8	Socket M8x1, 4-pin								1			
Switch	ing output											
2P 2N	2x PNP 2x NPN											
ZN												
Electri	al connection (switching output)											
M8	Plug M8x1, 4-pin											

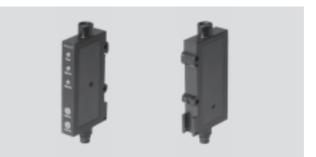
Signal converters SVE4 Technical data

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			

Certification	cULus listed (OL)
	C-Tick
UL temperature rating [°C]	-20 60
CE mark	To EU EMC Directive
(see declaration of conformity) ¹⁾	
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							
Туре	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						
Туре		SVE4-US	SVE4-IS	SVE4-HS		
Operating voltage range [\	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			

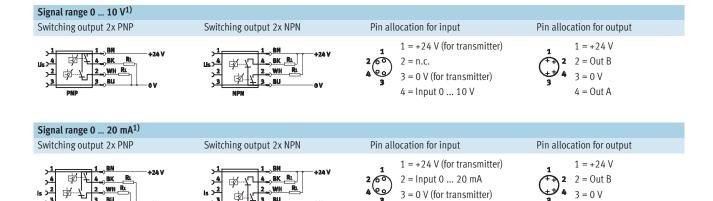
Mechanical components	
Product weight [g]	19
Information on housing materials	ABS

Signal converters SVE4 Technical data

Display/operation				
Setting options	Teach-in			
Immissions/emissions				
	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.

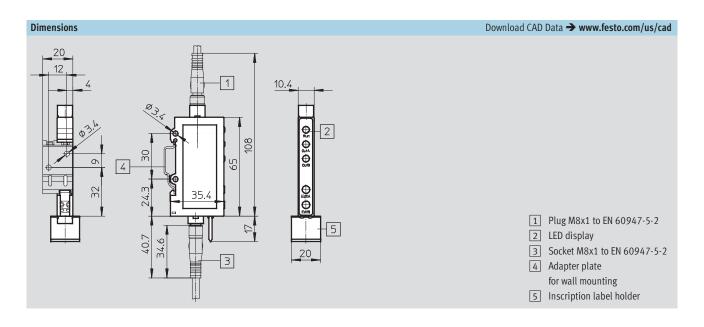


Signal range adapted for position sensors SMH-S1-HG ¹⁾					
Switching output 2x PNP	Switching output 2x NPN	Pin allocation for input	Pin allocation for output		
SMH-,, > SMH-,, > SMH-,, > SMH-,, > SMH-, > SM	SMH-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Adapted for position sensors SMH-S1-HG	$\begin{array}{c} 1 & 1 = +24 \text{ V} \\ \hline 1 & 2 & 2 = \text{Out B} \\ \hline 1 & 3 & 3 = 0 \text{ V} \\ \hline 3 & 4 & 0 \text{ out A} \end{array}$		

4 = n.c.

٥v

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



4 = Out A

Signal converters SVE4 Technical data

. . .

Ordering data					
Version	Signal range	Switching output PNP		Switching output NPN	
		Part No.	Туре	Part No.	Туре
000	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

Ordering data – Connecting cables for signal input						
					Technical data 🗲 Internet: nebu	
	Number of wires	Cable length	Part No.	Туре		
		[m]				
M8x1, straight plu	M8x1, straight plug					
	4	2.5	554033	NEBU-M12G5-E-2.5-W3-M8G4-V2 ¹⁾		
CT.I			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⁾		

For connecting signal converter SVE4-US to pressure transmitter SPTW-0-VD-M12.
 For connecting signal converter SVE4-IS to pressure transmitter SPTW-0-A-M12..
 For connecting to position transmitter SMAT-8M.
 For connecting to proximity sensor SIEA.

Ordering data – C	onnecting cables fo	or switching output	:	Technical data → Internet: nebu
	Number of wires	Cable length [m]	Part No.	Туре
M8x1, straight so	cket			
	4	2.5	541342	NEBU-M8G4-K-2.5-LE4
W ill		5	541343	NEBU-M8G4-K-5-LE4
M8x1, angled soc	ket			
	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/catalogue

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



Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components Complete custom engineered solutions



Custom Control Cabinets Comprehensive engineering support and on-site services



Complete Systems Shipment, stocking and storage services

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Electromechanical Electromechanical actuators, motors, controllers & drives



Pneumatics Pneumatic linear and rotary actuators, valves, and air supply



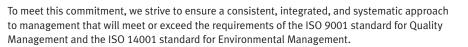
PLCs and I/O Devices PLC's, operator interfaces, sensors and I/O devices

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.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

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