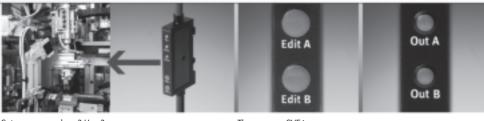
Signal converters SVE4





Remote control for sensors: Signal converters SVE4



Set up sensors here? How?

The answer: SVE4

Would you like to flexibly monitor your process using an analogue sensor? Up to now you needed a costly analogue input for the PLC. That is no longer the case thanks to the signal converter SVE4. This converts the analogue output signal from a sensor into switching points that can be taught in directly on the signal converter. This makes the signal converter SVE4 the ideal solution for applications where direct visual supervision of the process is required when setting switching points.

Faster installation

The signal converter is installed remotely from the sensor and supports a range of mounting options such as direct mounting or mounting via H-rail.

Easier commissioning

The integrated teach-in function means that the signal converter can be commissioned directly at the machine for maximum ease of installation.

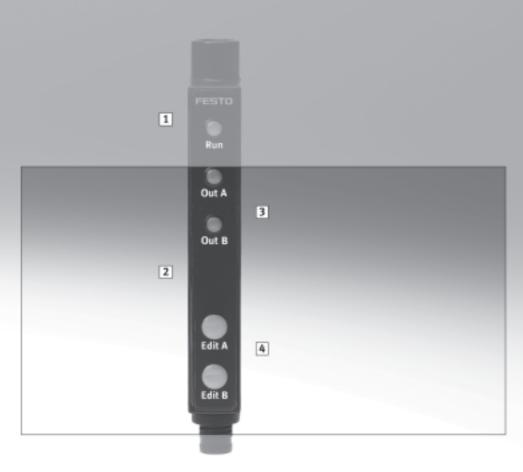
There is also no need to stop the system to set up the converter.

Increased flexibility

Two independent switch outputs are available as standard. Both can be configured as a threshold, hysteresis or window comparator.

Greater economy - guaranteed

The adjustable switch outputs do away with the need for a costly analogue input on the PLC and expensive programming.



- 1 Compact design saves space in the machine.
- 2 Simple and flexible mounting on H-rail or via through-hole.
- 3 2 LEDs ensure reliable and continuous monitoring of both switch outputs.
- 4 Simple teaching in of the independent switch outputs using two separate buttons.

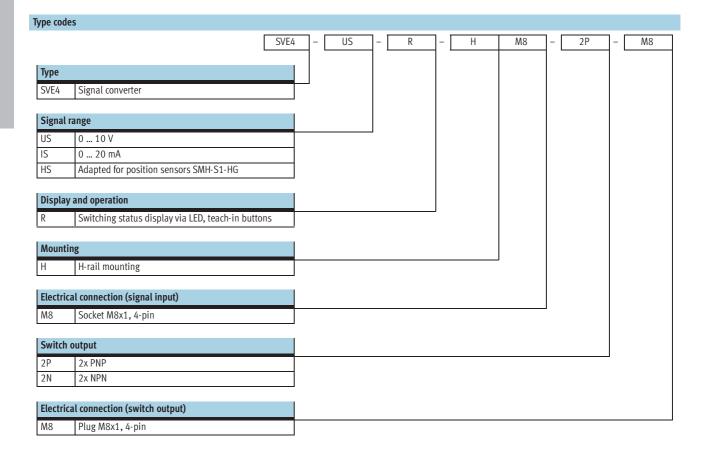
Perfectly harmonised: the signal converter SVE4 and position transmitter SMAT. This senses the piston position of a pneumatic cylinder within a range of 50 mm – for maximum process reliability during bonding, joining and similar applications.



Signal converters SVE4 Product overview, type codes



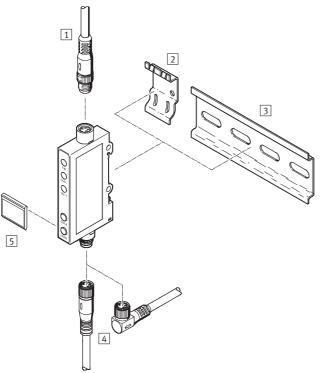
Product overview						
Function	Signal range	Switch output		→ Page		
	0 10 V	0 20 mA	Adapted for position sensors SMH-S1-HG	2x PNP	2x NPN	
Signal converter	•	-	-	•	-	4 / 8.2-14
	•	-	-	-	•	
	-	•	-	•	-	
	-	•	-	-		
	-	-	•	•	-	
	-	-	•	_		



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Signal converters SVE4 Peripherals overview

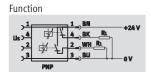




Accessories	→ Page
Connecting cable for signal input	4 / 8.2-16
2 Adapter plate SXE3-W	4 / 8.2-16
3 Mounting rail to DIN EN 60715	4 / 8.2-16
4 Connecting cable for switch output	4 / 8.2-16
5 Inscription label holder SXE3 (included in scope of delivery)	-

Signal converters SVE4 Technical data





- e.g. with switch output 2x PNP and signal range 0 ... 10 V
- Switching function freely programmable
- Mounting via H-rail or adapter plate



General technical data				
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
Setting options		Teach-in	·	
Product weight	[g]	19		

Electrical data		
Switch output		2x PNP
		2x NPN
Switching element function	n	N/O or N/C
Switching function		Freely programmable
Operating voltage range	[V DC]	10 30
Electrical connection	Input	Socket M8x1, 4-pin, to EN 60947-5-2
	Output	Plug M8x1, 4-pin, to EN 60947-5-2
Protection against short circuit		Pulsed
Protection against overloa	ding	Yes
Protection class	•	IP65

Materials		
Housing	Acrylic butadiene styrene	
Note on materials	Free of copper and PTFE	

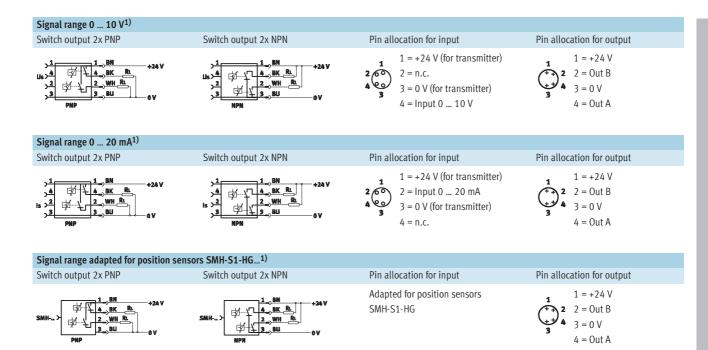
Operating and environmental conditions	
Ambient temperature [°C]	-20 +70
Corrosion resistance class CRC ¹⁾	2
CE symbol (see conformity declaration)	In accordance with EU EMC directive
Certification	C-Tick

¹⁾ Corrosion resistance class 2 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.

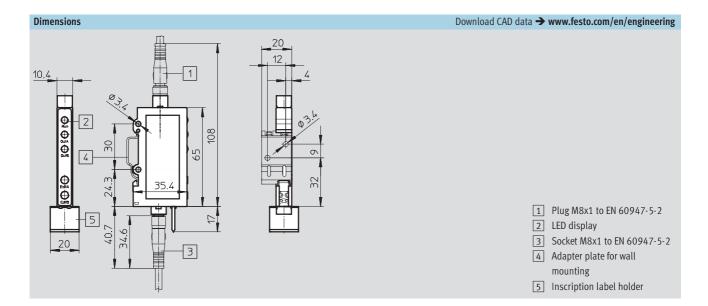
Signal converters SVE4

Technical data





 $1) \quad \hbox{Core colours indicated apply when using plug sockets with cable NEBU-M8 or SIM-M8}\\$



Ordering data						
Signal range			Switch output		Part No.	Туре
0 10 V	0 20 mA	Adapted for position sensors SMH-S1-HG	2x PNP	2x NPN		
	-	-		-	544 217	SVE4-US-R-HM8-2P-M8
	-	-	-		544 220	SVE4-US-R-HM8-2N-M8
-	•	-	•	-	544 218	SVE4-IS-R-HM8-2P-M8
-	•	-	-	-	544 221	SVE4-IS-R-HM8-2N-M8
-	-	•	•	-	544 216	SVE4-HS-R-HM8-2P-M8
_	-		_		544 219	SVE4-HS-R-HM8-2N-M8

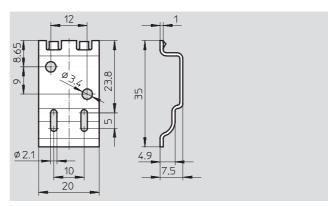
Signal converters SVE4 Accessories

Adapter plate SXE3-W

for wall or surface mounting

Material: Steel





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Ordering data		
	Part No.	Туре
Adapter plate	540 214	SXE3-W

Ordering data − Connecting cable M8x1 for signal input Technical data → 4 / 8.3-14								
	Assembly	Connection	Switch output		Cable length	Part No.	Туре	
			PNP	NPN	[m]			
Straight socket								
Straight socke	t							
	Union nut M8x1	4-pin			2	175 714	KSMH-1-M8-2-M8	
Straight socke		4-pin	•	•	2 0.1 25		KSMH-1-M8-2-M8 or for easy selection of application-	

Ordering data - Connecting cable M8x1 for switch output Technical data → 4 / 8.3-14							
	Assembly	Connection	Switch output		Cable length	Part No.	Туре
			PNP	NPN	[m]		
Straight socket	Straight socket						
	Union nut M8x1	4-pin		_	2.5	541 342	NEBU-M8G4-K-2.5-LE4
			_	_	5	541 343	NEBU-M8G4-K-5-LE4
Angled socket	Angled socket						
	Union nut M8x1	4-pin			2.5	541 344	NEBU-M8W4-K-2.5-LE4
				_	5	541 345	NEBU-M8W4-K-5-LE4

	Ordering data	– Mounting rail to DIN EN 60715		Technical data → www.festo.com
		Length	Part No.	Туре
[000000000000000000000000000000000000000	2 m	35 430	NRH-35-2000