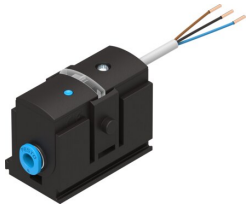
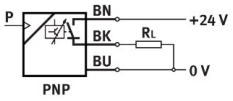
Pressure sensor
SDE5-D10-FP-Q4E-P-K

Part number: 542901





Data sheet

Feature	Value
Certification	RCM compliance mark c UL us - recognized (OL)
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Note on materials	RoHS compliant
Measured variable	Relative pressure
Method of measurement	Piezoresistive pressure sensor
Pressure measuring range initial value	0 MPa 0 bar 0 psi
Pressure measuring range end value	1 MPa 10 bar 145 psi
Overload pressure	1.5 MPa 15 bar 217.5 psi
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Lubricated operation possible
Temperature of medium	0 °C...50 °C
Ambient temperature	0 °C...50 °C
Accuracy in ± % FS	0.5 %FS
Repetition accuracy in ± %FS	0.3 %FS
Temperature co-efficient in ± %FS/K	0.05 %FS/K
Switching output	PNP
Switching function	Freely programmable
Switching element function	Switchable
Hysteresis in ± %FS	2 %FS
On time	2 ms
Switch-off time	2 ms
Max. output current	100 mA
Voltage drop	1.8 V
Short-circuit protection	Yes

Feature	Value
Overload protection	Yes
DC operating voltage range	15 V...30 V
Reverse polarity protection	for all electrical connections
Electrical connection 1, connection type	Cable
Electrical connection 1, connection technology	Open end
Electrical connection 1, number of pins/wires	3
Cable length	2.5 m
Material of cable sheath	TPE-U(PUR)
Max. cable length	30 m
Type of mounting	With accessories
Mounting position	Any
Pneumatic connection	QS-4
Product weight	47 g
Housing material	PA-reinforced Reinforced POM
Sealing ring material	FPM NBR
Switching status indication	Yellow LED
Setting options	Teach-in
Setting range threshold value	0 %...100 %
Degree of protection	IP40
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Cleanroom suitability, measured according to ISO 14644-14	Class 4 according to ISO 14644-1