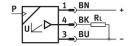
## **Pressure sensor** SDE5-D10-NF-Q6E-V-M8 Part number: 567465

**FESTO** 





## **Data sheet**

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 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  Method of measurement Pressure measuring range initial value Obar  Pressure measuring range end value Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible Temperature of medium O°C50°C Ambient temperature O°C50°C Ambient temperature O°C50°C Repetition accuracy in ± %FS O.3 %FS Temperature co-efficient in ± %FS/K Analog output O·10 V Output characteristic curve initial value O V Precision analog output in ± %FS O.3 %FS Linearity error in ± % FS O.3 %FS Short-circuit protection DC operating voltage range Reverse polarity protection Electrical connection With accessories With accessories	lue	Feature
As per EU RoHS directive  UKCA marking (see declaration of conformity)  To UK instructions for EMC To UK ROHS instructions  RoHS-compliant  Relative pressure  Method of measurement  Pressure measuring range initial value  Pressure measuring range end value  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Operation with oil lubrication possible  Temperature of medium  O °C50 °C  Ambient temperature  Repetition accuracy in ± %FS  Temperature co-efficient in ± %FS/K  Analog output  Output characteristic curve initial value  End value output characteristic curve  10 V  Precision analog output in ± %FS  O.3 %FS  Linearity error in ± %FS  O.3 %FS  Short-circuit protection  D C operating voltage range  15 V30 V  Reverse polarity protection  Electrical connection  Signal As per EU RoHS instructions  To UK ROHS instruction Instructions  To UK To UK ROHS instruction Instr		Certification
To UK RoHS instructions  Note on materials  RoHS-compliant  Measured variable  Method of measurement  Pressure measuring range initial value  Pressure measuring range end value  Operating medium  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Operation with oil lubrication possible  Temperature of medium  O°C50°C  Ambient temperature  Repetition accuracy in ± %FS  Temperature co-efficient in ± %FS/K  Analog output  Output characteristic curve initial value  End value output characteristic curve  10 V  Precision analog output in ± %FS  Linearity error in ± % FS  Short-circuit protection  DC operating voltage range  Reverse polarity protection  Electrical connection  To UK Relative pressure  Relative pressure  Neal Survey sensor  Obar  Pressure measuring range end value  Operating voltage range  15 V30 V  Reverse polarity protection  Electrical connection  To UK RoHS instructions  Operating voltage range  15 V30 V  Reverse polarity protection  Electrical connection  Sensor Survey Surv		CE marking (see declaration of conformity)
Measured variable  Method of measurement  Pressure measuring range initial value  Pressure measuring range end value  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Temperature of medium  Operation with oil lubrication possible  Temperature of medium  O° C50 °C  Ambient temperature  Repetition accuracy in ± %FS  Temperature co-efficient in ± %FS/K  Analog output  O 10 V  Output characteristic curve initial value  End value output characteristic curve  10 V  Precision analog output in ± %FS  Short-circuit protection  DC operating voltage range  15 V30 V  Reverse polarity protection  Electrical connection  As pin M8x1 Plug as per EN 60947-5-2 Round design		UKCA marking (see declaration of conformity)
Method of measurement Pressure measuring range initial value Pressure measuring range end value Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Temperature of medium O°C50 °C Ambient temperature O°C50 °C Repetition accuracy in ± %FS Temperature co-efficient in ± %FS/K Analog output O'V Output characteristic curve initial value End value output characteristic curve 10 V Precision analog output in ± %FS Short-circuit protection DC operating voltage range Reverse polarity protection Electrical connection  Pressure measuring range initial value O°C50 °C Ompressed air as per ISO 8573-1:2010 [7:4:4] Operating with oil lubrication possible O°C50 °C O°C50	HS-compliant	Note on materials
Pressure measuring range initial value Pressure measuring range end value  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media  Temperature of medium  O°C50 °C  Ambient temperature  Repetition accuracy in ± %FS  Temperature co-efficient in ± %FS/K  Analog output  O°C50 °C  Analog output  O°C50 °C  Repetition accuracy in ± %FS  Temperature co-efficient in ± %FS/K  Analog output  O°C50 °C  O°C50 °C  Repetition accuracy in ± %FS  O°C  O°C  Repetition accuracy in ± %FS  O°C  O°C  O°C  O°C  O°C  O°C  O°C  O°	lative pressure	Measured variable
Pressure measuring range end value  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Operation with oil lubrication possible  Temperature of medium  O °C50 °C  Ambient temperature  Repetition accuracy in ± %FS  O.3 %FS  Temperature co-efficient in ± %FS/K  Analog output  O · 10 V  Output characteristic curve initial value  End value output characteristic curve  10 V  Precision analog output in ± %FS  Linearity error in ± %FS  Short-circuit protection  DC operating voltage range  Reverse polarity protection  Electrical connection  M8x1  Plug as per EN 60947-5-2 Round design	zoresistive pressure sensor	Method of measurement
Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media  Temperature of medium  O°C50°C  Ambient temperature  Repetition accuracy in ± %FS  Temperature co-efficient in ± %FS/K  Analog output  O° -10 V  Output characteristic curve initial value  End value output characteristic curve  10 V  Precision analog output in ± %FS  Linearity error in ± % FS  Short-circuit protection  DC operating voltage range  Reverse polarity protection  Electrical connection  Short-circuit protection  Electrical connection  The standard operating voltage range  Reverse polarity protection  Electrical connection  Short-circuit protection  Beside a per ISO 8573-1:2010 [7:4:4]  Operation with oil lubrication possible  Ocun.50°C  Ocu.50°C  Oc	oar	Pressure measuring range initial value
Information on operating and pilot media  Temperature of medium  O°C50°C  Ambient temperature  O°C50°C  Repetition accuracy in ± %FS  Temperature co-efficient in ± %FS/K  Analog output  O to to to to vo  Output characteristic curve initial value  End value output characteristic curve  Precision analog output in ± %FS  Linearity error in ± %FS  Short-circuit protection  DC operating voltage range  To voltage as per EN 60947-5-2  Reverse polarity protection  Operation with oil lubrication possible  O collaboracy  O collaboracy  O collaboracy  O collaboracy  O collaboracy  O voltage range  Oscilaboracy  Osci	bar	Pressure measuring range end value
Temperature of medium  O °C50 °C  Ambient temperature  Repetition accuracy in ± %FS  O.3 %FS  Temperature co-efficient in ± %FS/K  Analog output  O · 10 V  Output characteristic curve initial value  End value output characteristic curve  10 V  Precision analog output in ± %FS  Linearity error in ± % FS  Short-circuit protection  DC operating voltage range  To v30 V  Reverse polarity protection  Electrical connection  3-pin M8x1 Plug as per EN 60947-5-2 Round design	mpressed air as per ISO 8573-1:2010 [7:4:4]	Operating medium
Ambient temperature  Repetition accuracy in ± %FS  Temperature co-efficient in ± %FS/K  Analog output  O-10 V  Output characteristic curve initial value  End value output characteristic curve  10 V  Precision analog output in ± %FS  Linearity error in ± % FS  Short-circuit protection  DC operating voltage range  To V30 V  Reverse polarity protection  Electrical connection  3-pin  M8x1  Plug as per EN 60947-5-2  Round design	peration with oil lubrication possible	Information on operating and pilot media
Repetition accuracy in ± %FS  Temperature co-efficient in ± %FS/K  Analog output  Output characteristic curve initial value  End value output characteristic curve  10 V  Precision analog output in ± %FS  Linearity error in ± % FS  Short-circuit protection  DC operating voltage range  15 V30 V  Reverse polarity protection  Electrical connection  3-pin M8x1 Plug as per EN 60947-5-2 Round design	50 °C	Temperature of medium
Temperature co-efficient in ± %FS/K  Analog output  O-10 V  Output characteristic curve initial value  End value output characteristic curve  10 V  Precision analog output in ± %FS  Linearity error in ± % FS  Short-circuit protection  DC operating voltage range  DC operating voltage range  Electrical connection  Electrical connection  3-pin M8x1 Plug as per EN 60947-5-2 Round design	50 °C	Ambient temperature
Analog output  O - 10 V  Output characteristic curve initial value  End value output characteristic curve  10 V  Precision analog output in ± %FS  Linearity error in ± % FS  Short-circuit protection  DC operating voltage range  DC operating voltage range  Reverse polarity protection  Electrical connection  3-pin M8x1 Plug as per EN 60947-5-2 Round design	3 %FS	Repetition accuracy in ± %FS
Output characteristic curve initial value  End value output characteristic curve  Precision analog output in ± %FS  Linearity error in ± % FS  Short-circuit protection  DC operating voltage range  DC operating voltage range  Reverse polarity protection  Electrical connection  S-pin M8x1 Plug as per EN 60947-5-2 Round design	)5 %FS/K	Temperature co-efficient in ± %FS/K
End value output characteristic curve  Precision analog output in ± %FS  3 %FS  Linearity error in ± % FS  O.3 %FS  Short-circuit protection  DC operating voltage range  15 V30 V  Reverse polarity protection  Electrical connection  3-pin M8x1 Plug as per EN 60947-5-2 Round design	10 V	Analog output
Precision analog output in ± %FS Linearity error in ± % FS O.3 %FS Short-circuit protection  DC operating voltage range DC operating voltage range Reverse polarity protection  Electrical connection  3-pin M8x1 Plug as per EN 60947-5-2 Round design	l .	Output characteristic curve initial value
Linearity error in ± % FS  Short-circuit protection  DC operating voltage range  15 V30 V  Reverse polarity protection  Electrical connection  3-pin M8x1 Plug as per EN 60947-5-2 Round design	V	End value output characteristic curve
Short-circuit protection  DC operating voltage range  15 V30 V  Reverse polarity protection  Electrical connection  3-pin M8x1 Plug as per EN 60947-5-2 Round design	%FS	Precision analog output in ± %FS
DC operating voltage range 15 V30 V  Reverse polarity protection for all electrical connections  Electrical connection 3-pin M8x1 Plug as per EN 60947-5-2 Round design	3 %FS	Linearity error in ± % FS
Reverse polarity protection for all electrical connections  Electrical connection 3-pin M8x1 Plug as per EN 60947-5-2 Round design	5	Short-circuit protection
Electrical connection  3-pin  M8x1  Plug  as per EN 60947-5-2  Round design	V30 V	DC operating voltage range
M8x1 Plug as per EN 60947-5-2 Round design	all electrical connections	Reverse polarity protection
Type of mounting With accessories	3x1 Jg per EN 60947-5-2	Electrical connection
1.750 or mountains	th accessories	Type of mounting
Mounting position Any	у	Mounting position
Pneumatic connection QS-6	-6	Pneumatic connection

Feature	Value
Product weight	19 g
Housing material	PA POM
Ready status indication	LED green
Degree of protection	IP40
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Cleanroom class	Class 4 according to ISO 14644-1