## Pressure sensor SDE5-D10-NF-Q6-V-M8

Part number: 567466



**Data sheet** 

C characters   KC EMC     Symbol   00991967     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     Note on materials   R0H5-compliant     Weasured variable   Relative pressure     Wethod of measurement   Piezoresistive pressure sensor     Pressure measuring range initial value   0 bar     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   0 °C 50 °C     Ambient temperature   0 °C 50 °C     Analog output   0 ·10 V     Dutput characteristic curve initial value   0 V     End value output characteristic curve   10 V     Dutput characteristic curve initial value   0 V     End value output characteristic curve   10 V     Dutput characteristic curve   10 V     Dutput characteristic curve   10 V     Dutput characteristic curve   0 ×     End value output characteristic curve   0 ×     DC operating voltage range   15 V 30 V	Feature	Value
Symbol00991967CertificationRCM compliance mark c UL us - Recognized (OL)CE marking (see declaration of conformity)As per EU EMC directive As per EU RMC directive As per EU RMC directiveNote on materialsRoHS-compliantMeasured variableRelative pressure Pressure measuring range initial valueO barOperating mediumObarOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possibleImportance of mediumO*CO*C.50 °CAmbient temperature0 °C 50 °CRepetition accuracy in ± %FS0.3 %FSImportance or filotent in ± %FS/K0.05 %FS/KAnalog output0 · 10 VDutput characteristic curve initial value0 VEnd value output characteristic curve10 VPrecision analog output in ± %FS0.3 %FSDutput characteristic curve10 VEnd value output characteristic curve10 VProcestion9%FSDo operating voltage range15 V 30 VReverse polarity protection10 al electrical connectionsElectrical connection3%FSDurantingWith accessoriesMounting positionAryPreumatic connection45 °GProduct weight19 gHus as per IN 60947-5-2Round design79 °GMounting positionAryPreumatic connection45 °GProduct weight19 gHousi	Type code	SDE5
Critification     RCM compliance mark C UL us - Recognized (OL)       CE marking (see declaration of conformity)     As per EU ENG (interctive As per EU Rolf Scienctive       Note on materials     RoHS-compliant       Weasured variable     Relative pressure       Wethod of measurement     Piezoresistive pressure sensor       Pressure measuring range initial value     0 bar       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     0 °C 50 °C       Ambient temperature     0 °C 50 °C       Repetition accuracy in ± %FS     0.3 %FS       Itemperature co-efficient in ± %FS/K     0.05 %FS/K       Nalag output     0 - 10 V       Dutput characteristic curve     10 V       Precision analog output in ± %FS     3 %FS       Short-circuit protection     yes       DC operating voltage range     15 V 30 V       Reverse polarity protection     3 prin       M8x1     Plug as per EN 60947-5-2 Round design       Ype of mounting     Any       Mounting position     Any       Pre	KC characters	KC EMC
cUL us - Recognized (OL)CE marking (see declaration of conformity)As per EU RMS directiveNote on materialsRoHS-compliantMeasured variableRelative pressureMethod of measurementPiezoresistive pressure sensorPressure measuring range initial valueO barOperating mediumCompressed air as per ISO 8573-1:2010[7:4:4]Operating mediumO°C 50 °CAmbient temperature of medium0°C 50 °CAmbient temperature of medium0°C 50 °CAmbient temperature co-efficient in ± %FS/K0.3 %FSCompression quital value0 VOutput tharacteristic curve10 VOutput tharacteristic curve10 VOutput tharacteristic curve10 VPrecision analog output in ± %FS0.3 %FSCongression9×5Congression3 %FSCongression10 VPrecision analog output in ± %FS3 %FSDo output characteristic curve10 VPrecision analog output in ± %FS0.3 %FSDo core analog output in ± %FS3 %FSDo analog output in ± %FS3 %FSDo analog output in ± %FS3 %FSCongression male and which we analog output in ± %FS3 %FSMounting positionfor all electrical connectionsElectrical connection%FWe as per EN 60947-5-2% NotNou designAny	Symbol	00991967
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Measured variableRelative pressureMethod of measurementPiezoresistive pressure sensorPressure measuring range initial value0 barPressure measuring range end value10 barOperating mediumCompressed air as per ISO 8573-1:2010[7:4:4]Information on operating and pilot mediaOperation with oil lubrication possibleImperature of medium0 °C 50 °CAmbient temperature0 °C 50 °CAnalog output0.10 VOutput characteristic curve initial value0 VDutput characteristic curve10 VPrecision analog output in ± %FS3 %FSConception analog output in ± %FS3 %FSShort-circuit protectionyesDo C operating voltage range15 V 30 VReverse polarity protection5 v 30 VReverse polarity protection3-pin M8x1 Hug as per EN 60947-5-2 Round designType of mountingWith accessoriesMounting positionAnyPreduct weight19 gHousing materialPA POM	CE marking (see declaration of conformity)	
Method of measurement     Plezoresistive pressure sensor       Pressure measuring range initial value     0 bar       Pressure measuring range end value     10 bar       Opperating medium     Compressed air as per ISO 8573-1:2010[7:4:4]       Information on operating and pilot media     Operation with oil lubrication possible       Iemperature of medium     0 °C 50 °C       Ambient temperature     0 °C 50 °C       Repetition accuracy in ± %FS     0.3 %FS       Iemperature co-efficient in ± %FS/K     0.05 %FS/K       Analog output     0 - 10 V       Dutput characteristic curve initial value     0 V       End value output characteristic curve     10 V       Precision analog output in ± %FS     0.3 %FS       Linearity error in ± %FS     0.3 %FS       Short-circuit protection     yes       DC operating voltage range     15 V 30 V       Reverse polarity protection     3-pin       M8x1     Plug       Puer Kaogan     Sper Ko0947-5-2       Round design     Any       Pounting position     Any       Product weight     19 g       Housing material	Note on materials	RoHS-compliant
Pressure measuring range initial value   0 bar     Pressure measuring range end value   10 bar     Operating medium   Compressed air as per ISO 8573-1:2010 [7:4:4]     Information on operating and pilot media   Operation with oil lubrication possible     Iemperature of medium   0 °C 50 °C     Ambient temperature   0 °C 50 °C     Repetition accuracy in ± %FS   0.3 %FS     Iemperature co-efficient in ± %FS/K   0.05 %FS/K     Analog output   0 - 10 V     Dutput characteristic curve initial value   0 V     End value output characteristic curve   10 V     Precision analog output in ± %FS   0.3 %FS     Linearity error in ± % FS   3 %FS     Linearity protection   9 %FS     DC operating voltage range   15 V 30 V     Reverse polarity protection   9 pin     Maxin   Plug     as per IN 60947-5-2   Round design     Type of mounting   With accessories     Mounting position   Any     Preduct weight   19 g     Housing material   PA	Measured variable	Relative pressure
bressure measuring range end value   10 bar     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   0 °C 50 °C     Ambient temperature   0 °C 50 °C     Repetition accuracy in ±%FS   0.3 %FS     Iemperature co-efficient in ±%FS/K   0.05 %FS/K     Analog output   0 - 10 V     Output characteristic curve initial value   0 V     End value output characteristic curve   10 V     Precision analog output in ±%FS   0.3 %FS     Short-circuit protection   yes     DC operating voltage range   15 V 30 V     Reverse polarity protection   for all electrical connections     Electrical connection   3 spin     M8x1   Plug as per FIN 60947-5-2 Round design     Vipe of mounting   With accessories     Mounting position   Any     Pneumatic connection   19 g     Product weight   19 g     Housing material   PA	Method of measurement	Piezoresistive pressure sensor
Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possibleTemperature of medium0 °C 50 °CAmbient temperature0 °C 50 °CRepetition accuracy in ± %FS0.3 %FSTemperature co-efficient in ± %FS/K0.05 %FS/KAnalog output0 - 10 VOutput characteristic curve initial value0 VEnd value output characteristic curve10 VPrecision analog output in ± %FS0.3 %FSShort-circuit protectionyesDC operating voltage range15 V 30 VReverse polarity protection3-pin M8x1 Plug as per EN 60947-5-2 Round designType of mountingWith accessoriesMounting positionAnyPneumatic connectionQS-6 Product weightProduct weight19 gHousing materialPA POM	Pressure measuring range initial value	0 bar
Information on operating and pilot mediaOperation with oil lubrication possibleTemperature of medium0 °C 50 °CAmbient temperature0 °C 50 °CRepetition accuracy in ± %FS0.3 %FSTemperature co-efficient in ± %FS/K0.05 %FS/KAnalog output0 · 10 VOutput characteristic curve initial value0 VEnd value output characteristic curve10 VPrecision analog output in ± %FS0.3 %FSShort-circuit protectionyesDo operating voltage range15 V 30 VReverse polarity protection3-pin M8x1 Plug as per EN 60947-5-2 Round designType of mountingWith accessoriesMounting positionAnyPneumatic connectionQS-6Product weight19 gHousing materialPA POM	Pressure measuring range end value	10 bar
Temperature of medium0 °C 50 °CAmbient temperature0 °C 50 °CRepetition accuracy in ± %FS0.3 %FSTemperature co-efficient in ± %FS/K0.05 %FS/KAnalog output0 - 10 VDutput characteristic curve initial value0 VEnd value output characteristic curve10 VPrecision analog output in ± %FS3 %FSLinearity error in ± % FS0.3 %FSShort-circuit protectionyesDC operating voltage range15 V 30 VReverse polarity protectionfor all electrical connectionsElectrical connection3 *pin M&x1 Plug as per EN 60947-5-2 Round designType of mountingWith accessoriesMounting positionAnyPneumatic connectionQS-6Product weight19 gHousing materialPA POM	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Ambient temperature0 °C 50 °CRepetition accuracy in ± %FS0.3 %FSTemperature co-efficient in ± %FS/K0.05 %FS/KAnalog output0 - 10 VOutput characteristic curve initial value0 VEnd value output characteristic curve10 VPrecision analog output in ± %FS3 %FSLinearity error in ± % FS0.3 %FSShort-circuit protectionyesDC operating voltage range15 V 30 VReverse polarity protection3-pinM8x1Plug as per EN 60947-5-2 Round designType of mountingWith accessoriesMounting positionAnyPneumatic connectionQS-6Product weight19 gHousing materialPA POM	Information on operating and pilot media	Operation with oil lubrication possible
Repetition accuracy in ±%FS0.3 %FSTemperature co-efficient in ±%FS/K0.05 %FS/KAnalog output0 - 10 VOutput characteristic curve initial value0 VEnd value output characteristic curve10 VPrecision analog output in ±%FS3 %FSLinearity error in ±% FS0.3 %FSShort-circuit protectionyesDC operating voltage range15 V 30 VReverse polarity protection3 -pin M8x1 Plug as per EN 60947-5-2 Round designType of mountingWith accessoriesMounting positionAnyPneumatic connectionQS-6Product weight19 gHousing materialPA POM	Temperature of medium	0 °C 50 °C
Temperature co-efficient in ± %FS/K0.05 %FS/KAnalog output0 - 10 VOutput characteristic curve initial value0 VEnd value output characteristic curve10 VPrecision analog output in ± %FS3 %FSLinearity error in ± % FS0.3 %FSShort-circuit protectionyesDC operating voltage range15 V 30 VReverse polarity protectionfor all electrical connectionsElectrical connection3-pin M8x1 Plug as per EN 60947-5-2 Round designType of mountingWith accessoriesMounting positionAnyPneumatic connectionQS-6Product weight19 gHousing materialPA POM	Ambient temperature	0 °C 50 °C
Analog output0 - 10 VOutput characteristic curve initial value0 VEnd value output characteristic curve10 VPrecision analog output in ± %FS3 %FSLinearity error in ± % FS0.3 %FSShort-circuit protectionyesDC operating voltage range15 V 30 VReverse polarity protectionfor all electrical connectionsElectrical connection3-pin M8x1 Plug as per EN 60947-5-2 Round designType of mountingWith accessoriesMounting positionAnyPheumatic connectionQS-6Product weight19 gHousing materialPA POM	Repetition accuracy in ± %FS	0.3 %FS
Dutput characteristic curve initial value0 VEnd value output characteristic curve10 VPrecision analog output in ± %FS3 %FSLinearity error in ± % FS0.3 %FSShort-circuit protectionyesDC operating voltage range15 V 30 VReverse polarity protectionfor all electrical connectionsElectrical connection3-pin M8x1 Plug as per EN 60947-5-2 Round designType of mountingWith accessoriesMounting positionAnyPheumatic connectionQS-6Product weight19 gHousing materialPA POM	Temperature co-efficient in ± %FS/K	0.05 %FS/K
InductionInductionEnd value output characteristic curve10 VPrecision analog output in ± %FS3 %FSLinearity error in ± % FS0.3 %FSShort-circuit protectionyesDC operating voltage range15 V 30 VReverse polarity protectionfor all electrical connectionsElectrical connection3-pin M8x1 Plug as per EN 60947-5-2 Round designType of mountingWith accessoriesMounting positionAnyPneumatic connection19 gHousing materialPA POM	Analog output	0 - 10 V
Precision analog output in ± %FS3 %FSLinearity error in ± % FS0.3 %FSShort-circuit protectionyesDC operating voltage range15 V 30 VReverse polarity protectionfor all electrical connectionsElectrical connection3-pin M8x1 Plug as per EN 60947-5-2 Round designType of mountingWith accessoriesMounting positionAnyPneumatic connectionQS-6Product weight19 gHousing materialPA POM	Output characteristic curve initial value	0 V
Linearity error in ± % FS0.3 %FSShort-circuit protectionyesDC operating voltage range15 V 30 VReverse polarity protectionfor all electrical connectionsElectrical connection3-pin M8x1 Plug as per EN 60947-5-2 Round designType of mountingWith accessoriesMounting positionAnyPneumatic connectionQS-6Product weight19 gHousing materialPA POM	End value output characteristic curve	10 V
Short-circuit protectionyesDC operating voltage range15 V 30 VReverse polarity protectionfor all electrical connectionsElectrical connection3-pin M8x1 Plug as per EN 60947-5-2 Round designType of mountingWith accessoriesMounting positionAnyPneumatic connectionQS-6Product weight19 gHousing materialPA POM	Precision analog output in ± %FS	3 %FS
DC operating voltage range15 V 30 VReverse polarity protectionfor all electrical connectionsElectrical connection3-pin M8x1 Plug as per EN 60947-5-2 Round designType of mountingWith accessoriesMounting positionAnyPneumatic connectionQS-6Product weight19 gHousing materialPA POM	Linearity error in ± % FS	0.3 %FS
Reverse polarity protectionfor all electrical connectionsElectrical connection3-pin M8x1 Plug as per EN 60947-5-2 Round designType of mountingWith accessoriesMounting positionAnyPneumatic connectionQS-6Product weight19 gHousing materialPA POM	Short-circuit protection	yes
Electrical connection3-pin M8x1 Plug as per EN 60947-5-2 Round designType of mountingWith accessoriesMounting positionAnyPneumatic connectionQS-6Product weight19 gHousing materialPA POM	DC operating voltage range	15 V 30 V
M8x1 Plug as per EN 60947-5-2 Round designType of mountingWith accessoriesMounting positionAnyPneumatic connectionQS-6Product weight19 gHousing materialPA POM	Reverse polarity protection	for all electrical connections
Mounting position Any   Pneumatic connection QS-6   Product weight 19 g   Housing material PA POM	Electrical connection	M8x1 Plug as per EN 60947-5-2
Pneumatic connection QS-6 Product weight 19 g Housing material PA POM	Type of mounting	With accessories
Product weight 19 g Housing material PA POM	Mounting position	Any
Housing material PA POM	Pneumatic connection	QS-6
РОМ	Product weight	19 g
Ready status indication LED green	Housing material	
	Ready status indication	LED green

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**FESTO** 

Feature	Value
Degree of protection	IP40
Corrosion resistance class (CRC)	2 - Moderate corrosion stress