## Pressure sensor SDE5-V1-NF-Q6-V-M8

Part number: 567464



**Data sheet** 

KC characters       KC EMC         Symbol       00991967         Certification       RCM compliance mark cUL us - Recognized (OL)         CE marking (see declaration of conformity)       As per EU EMC directive As per EU RoHS directive         Note on materials       RoH-compliant         Measured variable       Relative pressure         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         Output characteristic curve initial value       0 V         End value output characteristic curve       10 V         Output characteristic curve       10 V         Output characteristic curve       10 V         Dubut characteristic curve       10 V <th>Feature</th> <th>Value</th>	Feature	Value
Symbol00991967CertificationRCM compliance mark c UL us - Recognized (0L)CE marking (see declaration of conformity)As per EU ENC directive As per EU RNC directive As per EU RNC 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]Information on operating and pilot mediaOperation with oil lubrication possibleTemperature of mediumO °C 50 °CAmbient temperature0 °C 50 °CRepetition accuracy in ±%FS0.3 %FSDetructeristic curve initial value0 VEnd value output characteristic curve10 VPrecision analog output in ±%FS0.3 %FSDutput characteristic curve10 VPrecision analog output in ±%FS0.3 %FSDo operating voltage range15 V 30 VReverse polarity protectionyesDC operating voltage range15 V 30 VReverse polarity protection10 vPression polarity protectionyesDC operating voltage range15 V 30 VReverse polarity protection10 vMeans10 vPuer set on unting Mounting positionAnyPreumatic connection25 6Product weight19 gHousing materialPAPoomPoom	Type code	SDE5
Critication       RCM compliance mark cUL us - Recognized (OL)         CE marking (see declaration of conformity)       As per EU Us Cliterctive As per EU RoHS directive         Note on materials       RoHS-compliant         Measured variable       Relative pressure         Method of measurement       Piezoresistive pressure sensor         Pressure measuring range initial value       O 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       O*C 50 °C         Anabient temperature       0.05 %FS/K         Analog output       0.10 V         Output characteristic curve       10 V         Precision analog output in ±%FS       0.3 %FS         Linearity eror in ±%FS       0.3 %FS         Declarateristic curve       0 V         Rend us 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       3 %FS         Linearity eror in ±% FS       0.3 %FS         Short-circuit protection       3 %FS         Linearity	KC characters	KC EMC
cUL us - Recognized (OL)CE marking (see declaration of conformity)As per EU BMC directive As per EU RMS directiveNote on materialsRoHS-compliantMeasured variableRelative pressureMethod of measurementPiezoresistive pressure sensorPressure measuring range initial value0 barOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Operating mediumO°C 50 °CAmbient temperature0 °C 50 °CAmbient temperature0.3 %FSTemperature of medium0 °C 50 °CAnalog output0.10 VOutput characteristic curve initial value0 VDutput characteristic curve10 VPrecision analog output in ±%FS0.3 %FSShort-Circuit protection9 %SDC operating voltage range15 V 30 VReverse polarity protection3-pin M8x1 Plug as per EM 60%47-5-2 Round designDive of mountingWith accessoriesMounting positionAnyPreduct weight19 g POMProduct weight19 g 	Symbol	00991967
As per EU RoHS 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]Information on operating and pilot mediaOperation with oil lubrication possibleTemperature of medium0 °C 50 °CAnabient temperature0 °C 50 °CAnalog output0 · 10 VOutput tharacteristic curve initial value0 VEnd value output tharacteristic curve10 VPresion analog output in ±%FS0.3 %FSCongressed air as per ISO 8573-1:2010[7:4:4]Congressed air as per ISO 8573-1:2010[7:4:4]Analog output0 °C 50 °CAnalog output in ±%FS0.3 %FSCongressed air as per ISO 8575/KAnalog output in ±%FS3 %FSCollopt tharacteristic curve initial value0 VEnd value output tharacteristic curve10 VPrecision analog output in ±%FS0.3 %FSShort-Circuit protection9 %FSShort-Circuit protection15 V 30 VReverse polarity protection3 -pin M8x1 Plug as per EN 60947-5-2 as per K06947-5-2 as ound designType of mountingWith accessoriesMounting positionAnyPreumatic connection9 %Product weight19 g PA POM	Certification	
Measured variable         Relative pressure           Method 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           Ambient temperature         0 °C 50 °C           Analog output         0.10 V           Output characteristic curve initial value         0 °C 50 °C           Analog output         0.10 V           Output characteristic curve initial value         0 °C 50 °C           Dutput characteristic curve initial value         0 V           End value output th #%FS         0.3 %FS           Output characteristic curve         10 V           Precision analog output in ±%FS         3 %FS           Coperating voltage range         15 V 30 V           Reverse polarity protection         yes           Do Coperating voltage range         15 V 30 V           Reverse polarity protection         3-pin M8x1 Plug as per H 60947-5-2 Round design           Type of mounting         With accessories           <	CE marking (see declaration of conformity)	
Method of measurement         Piezoresistive pressure sensor           Pressure measuring range initial value         0 bar           Pressure measuring range end value         -1 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           Information on operating and pilot media         O° C 50 °C           Ambient temperature of medium         0 °C 50 °C           Repetition accuracy in ± %FS         0.3 %FS           Temperature 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           Linearity error in ± % FS         0.3 %FS           Short-circuit protection         yes           DC operating voltage range         15 V 30 V           Reverse polarity protection         for all electrical connections           Sip of mounting         With accessories           Mounting position         Any           Pheumatic connection         19 g           Product weight         19 g           PooM         PoM<	Note on materials	RoHS-compliant
Pressure measuring range initial value       0 bar         Pressure measuring range end value       -1 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         Ambient temperature or efficient in ± %FS       0.3 %FS         Temperature 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       3 %FS         Linearity error 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 pin M8x1         Plug       as pin M8x1         Plug       as per IN 60947-5-2         Round design       Any         Pheumatic connection       Q5 6         Product weight       19 g         Housing material       PA	Measured variable	Relative pressure
Pressure measuring range end value       -1 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         Temperature 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-pin M8x1 Plug as per EN 60947-5-2 Round design         Type of mounting       With accessories         Mounting position       Any         Pneumatic connection       Qs 6         Product weight       19 g         Housing material       PA	Method of measurement	Piezoresistive pressure sensor
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         Temperature 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         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 as per EN 60947-5-2 Round design         Type of mounting       With accessories         Mounting position       Any         Pneumatic connection       29-6         Product weight       19 g         Housing material       PA 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 ± %FS3 %FSLinearity error in ± % FS0.3 %FSShort-circuit protectionyesDC operating voltage range15 V 30 VReverse polarity protectionfor all electrical connectionsElectrical connection3-pinM8x1Plug as per EN 60947-5-2 Round designType of mountingWith accessoriesMounting positionAnyPneumatic connectionQS-6Product weight19 gHousing materialPA POM	Pressure measuring range end value	-1 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 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 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-pinM&x1Plug 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 protection3-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 positionAnyPneumatic connectionQS-6Product weight19 gHousing materialPA POM	Repetition accuracy in ± %FS	0.3 %FS
Output characteristic curve initial valueO 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-pinM8x1Plug as per EN 60947-5-2 Round designType of mountingWith accessoriesMounting positionAnyPneumatic connectionQS-6Product weight19 gHousing materialPA POM	Temperature co-efficient in ± %FS/K	0.05 %FS/K
End 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 gProduct weight19 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 ± % FS O.3 %FS Short-circuit protection yes DC operating voltage range 15 V 30 V Reverse polarity protection For all electrical connections Electrical connection J-pin M8x1 Plug as per EN 60947-5-2 Round design Type of mounting With accessories Mounting position Any Pneumatic connection QS-6 Product weight Housing material PA POM	End value output characteristic curve	10 V
Short-circuit protection       yes         DC operating voltage range       15 V 30 V         Reverse polarity protection       for all electrical connections         Electrical connection       3-pin M8x1 Plug as per EN 60947-5-2 Round design         Type of mounting       With accessories         Mounting position       Any         Pneumatic connection       QS-6         Product weight       19 g         Housing material       PA POM	Precision analog output in ± %FS	3 %FS
DC operating voltage range       15 V 30 V         Reverse polarity protection       for all electrical connections         Electrical connection       3-pin M8x1 Plug as per EN 60947-5-2 Round design         Type of mounting       With accessories         Mounting position       Any         Pneumatic connection       QS-6         Product weight       19 g         Housing material       PA 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
POM	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