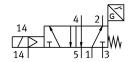
Air solenoid valve VSVA-B-M52-MZD-A2-1T1L-ANP

FESTO

Part number: 573203





Data sheet

Feature	Value
Valve function	5/2, monostable
Lap	Overlap
KC characters	KC EMC
Operating pressure	-0.09 MPa 1 MPa
Pilot pressure MPa	0.3 MPa 1 MPa
Actuation type	Electrical
Width	18 mm
Standard nominal flow rate	550 l/min
Pneumatic working port	Sub-base, size 18 mm as per ISO 15407-2 G1/8
Operating voltage	24V DC
Operating pressure	-0.9 bar 10 bar
Design	Piston gate valve
Reset method	Mechanical spring
Degree of protection	IP65 NEMA 4
Certification	C-Tick CSA (OL) c UL us - Recognized (OL)
Nominal width	5 mm
Type code	VSVA
Exhaust air function	With flow control option Via throttle plate Via individual sub-base
Sealing principle	Soft
Mounting position	Any
Manual override	Detenting Non-detenting Covered
Type of control	Pilot-controlled
Pilot air supply port	External Internal
Flow direction	Non-reversible
Symbol	00995286
Measuring principle	Inductive
Sensor reverse polarity protection	For all electrical connections
Signal status display	LED
Switching position sensing	Normal position with sensor

Sensor witching status indication Flow rate of procumatic valve Flow rate of procumatic valve Flow rate of procumatic valve on individual sub-base Sol Unim Flow rate of procumatic valve on individual sub-base Sol Unim Solicitary of the valve of procumatic valve on procumatically concatenated flow Solicitary flow valve of procumatic valve one cumatically concatenated flow Solicitary flow valve of procumatic valve one cumatically concatenated flow Solicitary flow valve of procumatic valve on individual sub-base Solicitary flow valve of procumatically concatenated flow Solicitary flow of the concentration of the valve of valve of the valve of	Feature	Value
Flow rate of pneumatic valve on individual sub-base 600 l/min Flow rate of pneumatic valve on individual sub-base 600 l/min Flow rate of pneumatic valve, pneumatically concatenated flow 500 l/min John Switching time off 7 On switching time off 1	Sensor switching status indication	LED
Provinct of pneumatic valve on individual sub-base Coptimized flow rate of pneumatic valve, pneumatically concatenated flow To 0 / Irnin To 0 / Irni	Pilot pressure	3 bar 10 bar
Optimized flow rate of pneumatic valve, pneumatically concatenated flow by principal flow rate of pneumatic valve pneumatically concatenated flow Solithing time of Solithing time (12 ms) \$50 l/min Optimized flow rate of pneumatic valve pneumatically concatenated flow Solithing time (12 ms) \$8 ms Pneumatic valve - sensor ON switching time (17 ms) \$9 ms Pneumatic valve - sensor ON switching time off \$9 ms Max. positive test pulse with 0 signal \$100 ms Max. positive test pulse with 0 signal \$100 us Max. positive test pulse on 1 signal \$00 us Nominal operating voltage DC \$24 V Switching output NPN Coll characteristics \$2 x V DC 1.6 w Surge resistance \$2 s kV Contramination level \$3 Permissible voltage fluctuations \$4 / 10 % Operating medium Compressed air as per ISO 8573-12010 [7-44] Information on operating and plot media Operation with of librication possible (required for further use) CE marking (see declaration of conformity) As per EU EMC directive Vibration resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-2.7 Corresistance class (CRO) On No. test with severi	Flow rate of pneumatic valve	750 l/min
flow Optimized flow rate of pneumatic valve pneumatically concatenated flow Switching time off 38 ms On switching time off 12 ms Pneumatic valve - sensor ON switching time 2 ms Pneumatic valve - sensor switching time off 9 ms Duty cycle 100% Max. positive test pulse with 0 signal 1500 µs Max. positive test pulse with 0 signal 800 µs Nominal operating voltage DC 24 V Switching output NPN Coll characteristics 22 V DCs 1.6 W Switching output 3 Contramination level 3 Permissible voltage fluctuations 4/-10 % Contramination on operating and pilot media Operation with oil lubrication possible (required for further use) CE marking See declaration of conformity) As per CEU RM directive Vibration resistance Shock resistance Carrowing resistance class (CRC) 0 - No corrowing stream Carrowing resistance class (CRC) 0 - No corrowing stream Carrowing resistance class (CRC) 0 - No corrowing stream Carrowing resistance class (CRC) 0 - No corrowing	Flow rate of pneumatic valve on individual sub-base	600 l/min
Switching time off On switching time 12 ms Pneumatic valve - sensor ON switching time 9 ms Pneumatic valve - sensor Whiching time off 100% Max. positive test pulse with 0 signal 1500 µs Max. positive test pulse with 0 signal 1500 µs Max. positive test pulse on 1 signal		700 l/min
Switching time off On switching time 12 ms Pneumatic valve - sensor ON switching time 9 ms Pneumatic valve - sensor Whiching time off 100% Max. positive test pulse with 0 signal 1500 µs Max. positive test pulse with 0 signal 1500 µs Max. positive test pulse on 1 signal	Optimized flow rate of pneumatic valve pneumatically concatenated flow	550 l/min
On switching time 12 ms Pneumatic valve - sensor ON switching time 32 ms Pneumatic valve - sensor switching time off 9 ms Daty cycle 100% Max. positive test pulse with 0 signal 1500 µs Max. negative test pulse on 1 signal 800 µs Nominal operating voltage DC 24 V Switching output NPN Coli characteristics 24 V DC: 1,6 W Surge resistance 2,5 kW Contamination level 3 Permissible voltage fluctuations -/-10 % Operating medium Compressed air as per ISO 85731:2010 [7:44] Information on operating and pilot media Operation with oil lubrication possible (required for further use) CE marking (see declaration of conformity) As per EU EMC directive Vibration resistance Tonoport application test with severity level 2 as per FN 942017 4 and EN 60068 2 6 Shock resistance Shock test with severity level 2 as per FN 942017 5 and EN 60068 2 6 Corrosion resistance class (CRC) O No corrosion stess Image: Experimental of medium -5 °C 50 °C Corrosion resistance class (CRC) O No corrosion stess <td></td> <td></td>		
Piecumatic valve - sensor ON switching time Piecumatic valve - sensor switching time of Piecumatic valve - sensor switching valve per October 1 signal 1500 µs		12 ms
Penematic valve - sensor switching time off Duty cycle 100% Nax. positive test pulse with 0 signal Nax. positive test pulse with 0 signal Nax. negative test pulse on 1 signal Nominal operating voltage DC 2a V Switching output NPN Coil characteristics 24 V DC: 1.6 W Surge resistance 2.5 kW Contamination level 3 Permissible voltage fluctuations Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) CE marking (see declaration of conformity) As per EU EMC directive Vibration resistance Françor application test with severity level 2 as per FN 942017-4 and RN 60068-2.72 Corosion resistance Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2.72 Corosion resistance class (CRC) Operation with oil lubrication possible (required for further use) CE marking (see declaration of conformity) As per EU EMC directive Vibration resistance Françor application test with severity level 2 as per FN 942017-4 and RN 60068-2.72 Corosion resistance class (CRC) Operation with severity level 2 as per FN 942017-5 and EN 60068-2.72 Corosion resistance class (CRC) Operation with severity level 2 as per FN 942017-5 and EN 60068-2.72 Corosion resistance class (CRC) Operation stress Entire and the several properation of the several prop		32 ms
Duty cycle Max. positive test pulse with 0 signal Max. negative test pulse with 0 signal Max. negative test pulse on 1 signal Nominal operating voltage DC 24 V Switching output NPN ANN Coll characteristics 2.5 kW Contamination level Permissible voltage fluctuations 4/ 10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) CE marking (see declaration of conformity) As per EU EMC directive Transport application test with severity level 2 as per FN 942017-3 and EN 60068-2-27 Corrosion resistance Shock resistance Shock resistance Shock resistance (SCC) O - No corrosion stress Corrosion resistance class (CRC) O - No corrosion stress Transport application test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress Transport application test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress Transport application test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress Transport application test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress Transport application test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress Transport application test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress Transport application test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress Transport application test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance c		9 ms
Max. negative test pulse on 1 signal Nominal operating voltage DC 2 AV Nominal operating voltage DC 2 AV Switching output NPN Coil characteristics 2 AV DC: 1.6 W Surge resistance 2.5 kW Contamination level 3 Permissible voltage fluctuations 1/-10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media CE marking (see declaration of conformity) As per EU EM. directive Vibration resistance Read and pilot media CE marking (see declaration of conformity) Vibration resistance Read are support application test with severity level 2 as per FN 942017-4 and EN 60068-2-7 Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O-No corrosion stress Temperature of medium 5-9 C 50 °C Relative air humidity 0-90 % Noise level Ambient temperature 5-9 C 50 °C Max. tightening torque for valve mounting 0-8 Nm1.2 Nm Product weight 140 g CC sensor operating voltage range 10 V 30 V Sensor short direuit protection Pulsed Sensor short direuit protection Pulsed Nax. output current, sensor 200 NA Max. output current, sensor 200 NB As. output current, sensor 200 NB As. output current, sensor 200 NB Sensor residual ripple 10 % Sensor residual rip	Duty cycle	100%
Max. negative test pulse on 1 signal Nominal operating voltage DC 2 AV Nominal operating voltage DC 2 AV Switching output NPN Coil characteristics 2 AV DC: 1.6 W Surge resistance 2.5 kW Contamination level 3 Permissible voltage fluctuations 1/-10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media CE marking (see declaration of conformity) As per EU EM. directive Vibration resistance Read and pilot media CE marking (see declaration of conformity) Vibration resistance Read are support application test with severity level 2 as per FN 942017-4 and EN 60068-2-7 Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O-No corrosion stress Temperature of medium 5-9 C 50 °C Relative air humidity 0-90 % Noise level Ambient temperature 5-9 C 50 °C Max. tightening torque for valve mounting 0-8 Nm1.2 Nm Product weight 140 g CC sensor operating voltage range 10 V 30 V Sensor short direuit protection Pulsed Sensor short direuit protection Pulsed Nax. output current, sensor 200 NA Max. output current, sensor 200 NB As. output current, sensor 200 NB As. output current, sensor 200 NB Sensor residual ripple 10 % Sensor residual rip	Max. positive test pulse with 0 signal	1500 μs
Nominal operating voltage DC Switching output NPN Surge resistance 2.5 kV Contamination level 3 Permissible voltage fluctuations 4/- 10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operating see declaration of conformity) As per EU EMC directive Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-7 Corrosion resistance class (CRC) O No corrosion stress Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-7 Temperature of medium 5°C 50°C Relative air humidity O 90 % Noise level 85 dB(A) Ambient temperature 5°C 50°C Max. tightening torque for valve mounting Of sensor operating voltage range 10 V 30 V Sensor short circuit protection Pulsed Sensor short circuit protection Pulsed Sensor max. switching frequency Sensor residual ripple Sensor rollage drop 10 V 30 V Electrical connection Pulse Sensor rollage drop 2 V Electrical connection Pulse of mounting On sub-base Pilot air port 12/14 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 1 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2		800 µs
Switching output Oil characteristics 24 V DC: 1.6 W Surge resistance 2.5 kV Contamination level 3 Permissible voltage fluctuations	·	24 V
Coli characteristics	·	NPN
Contamination level 3 Permissible voltage fluctuations		24 V DC: 1.6 W
Permissible voltage fluctuations Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operatin with oil lubrication possible (required for further use) CE marking (see declaration of conformity) As per EU EMC directive Vibration resistance Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-7 Corrosion resistance class (CRC) O - No corrosion stress Temperature of medium -5°C50°C Relative air humidity O - 90 % Noise level 88 dB(A) Ambient temperature -5°C50°C Max. tightening torque for valve mounting 0.8 km 1.2 km Product weight 140 g CS ensor operating voltage range 10 V 30 V Sensor short circuit protection Pulsed Sensor ridle current 410 mA Max. output current, sensor 200 mA Sensor ridle current 410 mA Max. output current, sensor 2000 Hz Sensor voltage drop 1 to % Sensor voltage drop 2 V Electrical connection Pulse Sensor connection Pulse Sensor connection Pulse Pulse Sensor connection Pulse Sensor rans as per ISO 15407-2 Pneumatic connection 1 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2	Surge resistance	2.5 kV
Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) As per EU EMC directive Vibration resistance Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O No corrosion stress Fee Medium S S C 50 °C Relative air humidity O - 90 % Noise level 88 dB(A) Ambient temperature 8-5 °C 50 °C Ambient temperature 9-5 °C 50 °C Now To C 50 °C Now To	Contamination level	3
Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) As per EU EMC directive Vibration resistance Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O No corrosion stress Fee Medium S S C 50 °C Relative air humidity O - 90 % Noise level 88 dB(A) Ambient temperature 8-5 °C 50 °C Ambient temperature 9-5 °C 50 °C Now To C 50 °C Now To	Permissible voltage fluctuations	+/- 10 %
Information on operating and pilot media CE marking (see declaration of conformity) As per EU EMC directive Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress Temperature of medium -5 °C 50 °C Relative air humidity O -90 % Noise level 85 dB(A) Ambient temperature -5 °C 50 °C Max. tightening torque for valve mounting O .8 Nm 1.2 Nm Product weight 140 g DC sensor operating voltage range 10 V 30 V Sensor short circuit protection Pulsed Sensor idic current 410 mA Max. output current, sensor 200 mA Sensor residual ripple 10 % Sensor residual ripple 10 % Sensor roltage drop 42 V Electrical connection Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2		Compressed air as per ISO 8573-1:2010 [7:4:4]
CE marking (see declaration of conformity) As per EU EMC directive Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock resistance Shock resistance class (CRC) 0 - No corrosion stress Temperature of medium 5 ° C 50 ° C Relative air humidity 0 - 90 % Noise level 85 dB(A) Ambient temperature 4.5 ° C 50 ° C Max. tightening torque for valve mounting 140 g DC sensor operating voltage range 10 V 30 V Sensor facility protection Pulsed Sensor ricity protection Pulsed Sensor max. switching frequency Sensor max. switching frequency Sensor residual ripple 210 % Sensor rouncetion Plug 3-pin Plug 3-pin Max.1 Type of mounting On sub-base Pilot air port 12/14 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2		
Vibration resistance Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) 0 - No corrosion stress Temperature of medium -5 ° C 50 ° C Relative air humidity 0 - 90 % Noise level -5 ° C 50 ° C Ambient temperature -5 ° C 50 ° C Max. tightening torque for valve mounting -5 ° C 50 ° C Max. tightening torque for valve mounting -1 40 g DC sensor operating voltage range -10 V 30 V Sensor short circuit protection -1 40 g Sensor idle current -1 50 mA Max. output current, sensor -1 200 mA Sensor was, switching frequency -1 5000 Hz Sensor residual ripple -1 10 % Sensor voltage drop -1 10 % Sensor voltage drop -1 10 % Sensor connection -1 1		
Corrosion resistance class (CRC) Temperature of medium 5° C 50°C Relative air humidity 0.90% Noise level 85 dB(A) Ambient temperature 5° C 50°C Max. tightening torque for valve mounting 0.8 Nm 1.2 Nm Product weight 140 g DC sensor operating voltage range 10 V 30 V Sensor short circuit protection Pulsed Sensor idle current 410 mA Max. output current, sensor Sensor max. switching frequency 5000 Hz Sensor rosidala ripple \$10% Sensor voltage drop Electrical connection Plug as per ISO 15407-2 Sensor connection Plug 1-3pin 1-3pi		Transport application test with severity level 2 as per FN 942017-4 and
Temperature of medium 5 ° C 50 ° C Relative air humidity 0 - 90 % 85 dB(A) Ambient temperature 55 ° C 50 ° C Max. tightening torque for valve mounting 0.8 Nm 1.2 Nm Product weight 140 g DC sensor operating voltage range 10 V 30 V Sensor short circuit protection Pulsed Sensor idle current 410 mA Max. output current, sensor 200 mA Sensor max. switching frequency 5000 Hz Sensor residual ripple \$10 % Sensor voltage drop Electrical connection Plug 3-pin M8x1 Type of mounting Pilot air port 12/14 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2	Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
Relative air humidity O - 90 % Noise level 85 dB(A) Ambient temperature -5° C 50° C Max. tightening torque for valve mounting O.8 Nm 1.2 Nm Product weight 140 g DC sensor operating voltage range 10 V 30 V Sensor short circuit protection Pulsed Sensor idle current 410 mA Max. output current, sensor 200 mA Sensor max. switching frequency 5000 Hz Sensor residual ripple ± 10 % Sensor voltage drop £ 2 V Electrical connection Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 1 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2	Corrosion resistance class (CRC)	0 - No corrosion stress
Noise level 85 dB(A) Ambient temperature -5° C 50° C Max. tightening torque for valve mounting 0.8 Nm 1.2 Nm Product weight 140 g DC sensor operating voltage range 10 V 30 V Sensor short circuit protection Pulsed Sensor idle current 410 mA Max. output current, sensor 200 mA Sensor max. switching frequency 5000 Hz Sensor residual ripple ±10 % Sensor voltage drop 42 V Electrical connection Plug as per ISO 15407-2 Sensor connection Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection Sub-base, size 18 mm as per ISO 15407-2	Temperature of medium	-5 °C 50 °C
Ambient temperature -5 °C 50 °C Max. tightening torque for valve mounting 0.8 Nm 1.2 Nm Product weight 140 g DC sensor operating voltage range 10 V 30 V Sensor short circuit protection Pulsed Sensor idle current 410 mA Max. output current, sensor 200 mA Sensor max. switching frequency 5000 Hz Sensor voltage drop £ 10 % Sensor voltage drop £ 2 V Electrical connection Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Pilot exhaust air port 82/84 Optionally: Ducted Not ducted Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2	Relative air humidity	0 - 90 %
Max. tightening torque for valve mounting Product weight DC sensor operating voltage range 10 V 30 V Sensor short circuit protection Pulsed Sensor idle current Amax. output current, sensor Sensor max. switching frequency Sensor residual ripple \$10 % Sensor voltage drop \$2 V Electrical connection Plug as per ISO 15407-2 Sensor connection Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Pilot exhaust air port 82/84 Optionally: Ducted Not ducted Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2	Noise level	85 dB(A)
Product weight DC sensor operating voltage range 10 V 30 V Sensor short circuit protection Pulsed Sensor idle current ≤10 mA Max. output current, sensor 200 mA Sensor max. switching frequency Sensor residual ripple ±10 % Sensor voltage drop Electrical connection 4-pin Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 1 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Sub-base, size 18 mm as per ISO 15407-2 Sub-base, size 18 mm as per ISO 15407-2	Ambient temperature	-5 °C 50 °C
DC sensor operating voltage range 10 V 30 V Sensor short circuit protection Pulsed Sensor idle current \$10 mA Max. output current, sensor 200 mA Sensor max. switching frequency Sensor residual ripple \$10 % Sensor voltage drop \$2 V Electrical connection 4-pin Plug as per ISO 15407-2 Sensor connection Plug 3-pin M8x1 Type of mounting On sub-base, size 18 mm as per ISO 15407-2 Pleutatia connection 1 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Sub-base, size 18 mm as per ISO 15407-2 Sub-base, size 18 mm as per ISO 15407-2	Max. tightening torque for valve mounting	0.8 Nm 1.2 Nm
Sensor short circuit protection Sensor idle current \$10 mA Max. output current, sensor \$200 mA Sensor max. switching frequency \$5000 Hz Sensor residual ripple \$10 % Sensor voltage drop \$2 V Electrical connection \$4-pin Plug as per ISO 15407-2 Sensor connection Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Pilot exhaust air port 82/84 Optionally: Ducted Not ducted Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2	Product weight	140 g
Sensor idle current # \$10 mA Max. output current, sensor 200 mA	DC sensor operating voltage range	10 V 30 V
Max. output current, sensor 200 mA Sensor max. switching frequency 5000 Hz Sensor residual ripple ± 10 % Sensor voltage drop ≤2 V Electrical connection 4-pin Plug as per ISO 15407-2 Sensor connection Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Sub-base, size 18 mm as per ISO 15407-2 Pilot exhaust air port 82/84 Optionally: Ducted Not ducted Not ducted Not ducted Pneumatic connection 1 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2	Sensor short circuit protection	Pulsed
Sensor max. switching frequency Sensor residual ripple £ 10 % Sensor voltage drop £ 2 V Electrical connection Plug as per ISO 15407-2 Sensor connection Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Sub-base, size 18 mm as per ISO 15407-2 Pilot exhaust air port 82/84 Optionally: Ducted Not ducted Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Sub-base, size 18 mm as per ISO 15407-2	Sensor idle current	≤10 mA
Sensor residual ripple \$\pmath{\pman	Max. output current, sensor	200 mA
Sensor voltage drop Electrical connection 4-pin Plug as per ISO 15407-2 Sensor connection Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Sub-base, size 18 mm as per ISO 15407-2 Pilot exhaust air port 82/84 Optionally: Ducted Not ducted Pneumatic connection 1 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2 Sub-base, size 18 mm as per ISO 15407-2	Sensor max. switching frequency	5000 Hz
Electrical connection 4-pin Plug as per ISO 15407-2 Sensor connection Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Pilot exhaust air port 82/84 Optionally: Ducted Not ducted Pneumatic connection 1 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2 Sub-base, size 18 mm as per ISO 15407-2 Sub-base, size 18 mm as per ISO 15407-2	Sensor residual ripple	± 10 %
Plug as per ISO 15407-2 Sensor connection Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Pilot exhaust air port 82/84 Optionally: Ducted Not ducted Pneumatic connection 1 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2	Sensor voltage drop	≤2 V
Sensor connection Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Sub-base, size 18 mm as per ISO 15407-2 Pilot exhaust air port 82/84 Optionally: Ducted Not ducted Pneumatic connection 1 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2	Electrical connection	Plug
Pilot air port 12/14 Pilot air port 82/84 Optionally: Ducted Not ducted Pneumatic connection 1 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2 Sub-base, size 18 mm as per ISO 15407-2 Sub-base, size 18 mm as per ISO 15407-2	Sensor connection	3-pin
Pilot air port 12/14 Pilot exhaust air port 82/84 Optionally: Ducted Not ducted Pneumatic connection 1 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2	Type of mounting	On sub-base
Pilot exhaust air port 82/84 Optionally: Ducted Not ducted Pneumatic connection 1 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2		Sub-base, size 18 mm as per ISO 15407-2
Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2	Pilot exhaust air port 82/84	Optionally: Ducted
Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2	Pneumatic connection 1	Sub-base, size 18 mm as per ISO 15407-2
Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2	Pneumatic connection 2	
· · · · · · · · · · · · · · · · · · ·	Pneumatic connection 3	·
	Pneumatic connection 4	Sub-base, size 18 mm as per ISO 15407-2

Feature	Value
Pneumatic connection 5	Sub-base, size 18 mm as per ISO 15407-2
Note on materials	RoHS-compliant
Seals material	FPM NBR
Housing material	Die-cast aluminum PA
Material of screws	Steel, galvanized
Switching element function	N/C contact