## Air solenoid valve VSVA-B-M52-MZH-A2-1T1L-APX-0.5

**FESTO** 

Part number: 8033477





## **Data sheet**

Feature	Value
Valve function	5/2, monostable
Actuation type	Electrical
Width	18 mm
Standard nominal flow rate	550 l/min
Pneumatic working port	Sub-base, size 18 mm according to ISO 15407-2 G1/8
Operating pressure	-0.09 MPa1 MPa -0.9 bar10 bar
Structural design	Piston gate valve
Reset method	Mechanical spring
KC characters	KC EMC
CE marking (see declaration of conformity)	As per EU EMC directive
Degree of protection	IP65 NEMA 4
Nominal width	5 mm
Exhaust air function	With flow control option Via throttle plate Via individual sub-base
Sealing principle	Soft
Mounting position	Any
Manual override	Non-detenting
Type of control	Pilot-controlled
Pilot air supply port	External
Flow direction	Non-reversible
Measuring principle	Inductive
Lap	Overlap
Sensor reverse polarity protection	For all electrical connections
Signal status display	LED
Switching position sensing	Normal position with sensor
Sensor switching status indication	LED
Pilot pressure MPa	0.3 MPa1 MPa
Pilot pressure	3 bar10 bar
Flow rate of pneumatic valve	750 l/min

Optimized flow rate of pneumatic valve, pneumatically concatenated flow Dottmized flow rate of pneumatic valve pneumatically concatenated flow 550 l/min  Switching time off 38 ms  On switching time 12 ms  Pneumatic valve - sensor ON switching time off 9 ms  Pneumatic valve - sensor ON switching time off 9 ms  Duty cycle 100%  Max. positive test pulse with O signal 1500 µs  Max. negative test pulse with O signal 800 µs  Nominal operating voltage DC 24 V  Switching output PNP  Coil characteristics 24 V DC: 1.6 W  Surge resistance 2.5 kV  Contamination level 3  Permissible voltage fluctuations 4/10 % Operating medium Operating and pilot media Operation with oil lubrication possible (required for further use) Vibration resistance ENS (RC) On Nonorrosion resistance Shock resistance	Feature	Value
flow Openitized flow rate of pneumatic valve pneumatically concatenated flow 12 ms         SW Irbin           Switching time off         38 ms           On switching time         12 ms           Pneumatic valve - sensor oN switching time         9 ms           Pneumatic valve - sensor own switching time off         9 ms           Dury cycle         100%           Max. positive test pulse with 0 signal         1500 µs           Max. positive test pulse with 0 signal         800 µs           Max. positive test pulse with 0 signal         800 µs           Max. positive test pulse with 0 signal         800 µs           Max. positive test pulse with 0 signal         800 µs           Max. positive test pulse with 0 signal         800 µs           Max. positive test pulse with 0 signal         800 µs           Max. positive test pulse with 0 signal         800 µs           Max. positive test pulse with 0 signal         800 µs           Max. positive test pulse with 0 signal         800 µs           Max. positive test pulse with 0 signal         800 µs           Max. positive test pulse with 0 signal         800 µs           Walk of the pulse with 0 signal         92 µs           Walk of the pulse with 0 signal         93 Ps           Walk of the pulse with 0 signal         94 µs <t< td=""><td>Flow rate of pneumatic valve on individual sub-base</td><td>600 l/min</td></t<>	Flow rate of pneumatic valve on individual sub-base	600 l/min
Switching time off	Optimized flow rate of pneumatic valve, pneumatically concatenated flow	700 l/min
On switching time	Optimized flow rate of pneumatic valve pneumatically concatenated flow	550 l/min
Peaumatic valve - sensor ON switching time of	Switching time off	38 ms
Peneumatic valve - sensor switching time off   9 ms   100%	On switching time	12 ms
Duty cycle   100%	Pneumatic valve - sensor ON switching time	32 ms
Max. positive test pulse on 1 signal Max. negative test pulse of 1 signal Max. negative test with severity level 2 as per 150 8573 1;2010 [7:4:4]  Dispatch test with severity level 2 as per FN 942017-4 and 1 shookes 2:27  Corrosion resistance class (CRC)  On No corrosion stress  Shock resistance Shock resist	Pneumatic valve - sensor switching time off	9 ms
Max. negative test pulse on 1 signal         800 µs           Nominal operating voltage DC         24 V           Valorithing output         PMP           Coll characteristics         24 V DC 1.6 W           Surge resistance         7.5 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         Operation with oil lubrication possible (required for further use)           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 60069-2-27           Corrosion resistance class (CRC)         0 - No corrosion stress           LABS (PWIS) controlling         VDMA2364-81/82-1           Temperature of medium         5 °C50 °C           Relative air humidity         0 - 50 %           Noise level         88 dB(Q)           Ambient temperature         5 °C50 °C           Max. dightening torque for valve mounting         0.8 Nr1 Nm           DC sensor operating voltage range         10 V.3.30 V           Dc sensor presidual ving preserve situation preserve situation preserve situation preserve situation preserve s	Duty cycle	100%
Nominal operating voltage DC Switching output PNP Coll characteristics 2 4 V DC: 1.6 W Surge resistance 2.5 kV Contamination level Permissible voltage fluctuations 4 /* 10 % Coperating medium Compressed air as per ISO 8573-1;2010 [7:4:4] Information on operating and pilot media Uptration on operating and pilot media Uptration resistance Tensport an pilot literative with severity level 2 as per FN 942017-4 and EN 60068-2 / 2 Shock resistance Tensport an pilot literative with severity level 2 as per FN 942017-5 and EN 60068-2 / 2 Shock resistance Shock sestiance Corrosion resistance class (CRC) On No corrosion stress Corrosion resistance class (CRC) On No corrosion stress Corrosion resistance vitage from the pilot media Shock resistance of medium Shock resistance of me	Max. positive test pulse with 0 signal	1500 μs
Switching output	Max. negative test pulse on 1 signal	800 μs
Coll characteristics	Nominal operating voltage DC	24 V
Surge resistance 2.5 kV Contamination level 3 Permissible voltage fluctuations	Switching output	PNP
Contamination level  Contamination level  Permissible voltage fluctuations  // 10 %  Compressed air as per ISO 8573-1;2010 [7:4:4]  Information on operating and pilot media  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)  Vibration resistance  Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6  Shock resistance class (CRC)  O No corrosion stress  Corrosion resistance dass (CRC)  O No corrosion stress  LABS (PWIS) conformity  VDMA24364-1872-L  Temperature of medium  -5 °C50 °C  Relative air humidity  O -90 %  Noise level  Ass. dB(A)  Ambient temperature  -5 °C50 °C  Max. tightening torque for valve mounting  O & Nm1.2 Nm  Product weight  157 g  Cosensor operating voltage range  10 V30 V  Sensor idle current  10 mA  Max. output current, sensor  200 mA  Sensor idle current, sensor  200 mA  Sensor woltage drop  2 V  Electrical connection  Pulse  Sensor voltage drop  2 V  Electrical connection  Pulse  Apin  Pulg  Cable  4-pin  M12x1  O.5 m  Pulse 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 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2	Coil characteristics	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 Operating medium Operating medium Operating medium Operating with oil lubrication possible (required for further use) Vibration resistance Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock resistance Shock resistance O-No cornosion stress Corrosion resistance class (CRC) O-No cornosion stress  LABS (PWIS) conformity VDMA24364-B1/B2-L Temperature of medium S-5 °C50 °C Relative air humidity O-90 % Noise level Sb 58 B(A) Ambient temperature S-5 °C50 °C Ambient temperature Operating voltage range Oper	Surge resistance	2.5 kV
Operating meditim 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) Vibration resistance Iransport application test with severity level 2 as per FN 942017-4 and RN 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  LABS (PWIS) conformity VDMA24364-B1/B2-L Temperature of medium - 5° C50° C Relative air humidity O - 90 % Noise level B8 dB(A) Ambient temperature - 5° C50° C Max. tightening torque for valve mounting OR 8 Mm1.2 Nm Product weight D5 censor operating voltage range 10 V30 V Sensor short circuit protection Pulsed Sensor filde current 10 mA Max. output current, sensor 200 mA Sensor max. switching frequency Sensor residual ripple  10 W. Sensor voltage drop 2 V Sensor voltage drop 2 V Sensor connection Plug Cable 4-pin M12x1 O.5 m Type of mounting Plot 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 3 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2		3
Information on operating and pilot media  Operation with oil lubrication possible (required for further use)  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  LABS (PWIS) conformity  VDMA24364-B1/B2-L  Temperature of medium  5-5°50°C  Relative air humidity  0 - 90 %  Noise level  85 dB(A)  Ambient temperature  5 °C50°C  Max. tightening torque for valve mounting  0.8 Mm12 Nm  Product weight  157 g  DC sensor operating voltage range  10 V30 V  Sensor operating voltage range  10 W30 V  Sensor of tricity protection  Pulsed  Sensor idle current  10 mA  Max. output current, sensor  200 mA  Sensor max. switching frequency  5000 Hz  Sensor residual ripple  1 10 %  Sensor one max. switching frequency  5000 Hz  Electrical connection  4-pin Pulse  Cable 4-pin M12x1 0.5 m  Type of mounting  Pulot air port 12/14  Sub-base, size 18 mm as per ISO 15407-2  Pilot exhaust air port 82/84  Ducted Optionally:  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 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2	Permissible voltage fluctuations	+/- 10 %
Information on operating and pilot media  Operation with oil lubrication possible (required for further use)  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  LABS (PWIS) conformity  VDMA24364-B1/B2-L  Temperature of medium  5-5°50°C  Relative air humidity  0 - 90 %  Noise level  85 dB(A)  Ambient temperature  5 °C50°C  Max. tightening torque for valve mounting  0.8 Mm12 Nm  Product weight  157 g  DC sensor operating voltage range  10 V30 V  Sensor operating voltage range  10 W30 V  Sensor of tricity protection  Pulsed  Sensor idle current  10 mA  Max. output current, sensor  200 mA  Sensor max. switching frequency  5000 Hz  Sensor residual ripple  1 10 %  Sensor one max. switching frequency  5000 Hz  Electrical connection  4-pin Pulse  Cable 4-pin M12x1 0.5 m  Type of mounting  Pulot air port 12/14  Sub-base, size 18 mm as per ISO 15407-2  Pilot exhaust air port 82/84  Ducted Optionally:  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 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2		
Vibration resistance Richosoba-2-6 Shock resistance class (CRC) O - No corrosion stress VDMA2364-B1/B2-L  Temperature of medium S - 5 °C50 °C Relative air humidity O - 90 % Noise level B5 dB(A) Ambient temperature S - 5 °C50 °C ANDIANA SA SA B1/B2-L  To BA SA		
Corrosion resistance class (CRC) 0 - No corrosion stress  LABS (PWIS) conformity VDMA24364-B1/B2-L  Temperature of medium - 5° C50° C  Relative air humidity 0 - 90 %  Noise level 85 dB(A)  Ambient temperature  -5° C50° C  Max. tightening torque for valve mounting 0.8 Mm1.2 Nm  Product weight 157 g  DC sensor operating voltage range 10 V30 V  Sensor short circuit protection Pulsed  Sensor short circuit protection 20 mA  Max. output current, sensor 200 mA  Sensor wall ripple 10%  Sensor voltage drop 2 V  Electrical connection 2 Pulg  Cable 4-pin Mi2x1 0.5 m  Mi2x1 0.5 m  Type of mounting 0 no sub-base 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 4 Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 4 Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 4 Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 4 Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2	· ·	Transport application test with severity level 2 as per FN 942017-4 and
LABS (PWIS) conformity  Temperature of medium  5° C50°C Relative air humidity  0.90% Noise level  Ass dB(A) Ambient temperature  5° C50°C  Max. tightening torque for valve mounting  0.8 Nm1.2 Nm  Product weight  157 g  10 V30 V  Sensor operating voltage range  10 V30 V  Sensor short circuit protection  Pulsed  Sensor incurrent  10 mA  Max. output current, sensor  200 mA  Sensor wax. switching frequency  5000 Hz  Sensor residual ripple  110%  Sensor voltage drop  Electrical connection  Plug as per ISO 15407-2  Sensor connection  Plug Cable 4-pin M1/2x1 0,5 m  Type of mounting  On sub-base Pilot air port 12/14  Pilot exhaust air port 82/84  Ducted Optionally:  Pneumatic connection 2  Pneumatic connection 3  Pneumatic connection 3  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  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
Temperature of medium  S • C50 ° C  Relative air humidity  0 • 90 %  Noise level  85 dB(A)  Ambient temperature  5 • C50 ° C  Max. tightening torque for valve mounting  Noise level  157 g  D C sensor operating voltage range  10 V30 V  Sensor short circuit protection  Pulsed  Sensor idle current  10 mA  Max. output current, sensor  200 mA  Sensor was. switching frequency  Sensor voltage drop  2 V  Electrical connection  Plug  Electrical connection  Plug  Apin  Plug  Apin  Mi 12x1  0.5 m  Type of mounting  Noise base, size 18 mm as per ISO 15407-2  Pneumatic connection 2  Pneumatic connection 3  Puematic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 4  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 4  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 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2	Corrosion resistance class (CRC)	0 - No corrosion stress
Relative air humidity  Noise level  85 dB(A)  Ambient temperature  5° C50° C  Max. tightening torque for valve mounting  0.8 Nm12 Nm  Product weight  DC sensor operating voltage range  10 V30 V  Sensor short circuit protection  Pulsed  Sensor short circuit protection  Pulsed  Sensor with the presenter  200 mA  Sensor max. switching frequency  5000 Hz  Sensor voltage drop  2 V  Electrical connection  Plug  Cable  4-pin  Plug  Cable  4-pin  M12x1  0.5 m  10 m  11 m  12 m  12 m  12 m  12 m  13 m  14 m  15	LABS (PWIS) conformity	VDMA24364-B1/B2-L
Noise level 85 dB(A) Ambient temperature -5° C50° C  Max. tightening torque for valve mounting 0.8 Nm1.2 Nm  Product weight 157 g  DC sensor operating voltage range 10 V30 V  Sensor short circuit protection Pulsed  Sensor idea current 10 mA  Max. output current, sensor 200 mA  Sensor wax. switching frequency 5000 Hz  Sensor voltage drop 2 V  Electrical connection 4-pin Plug as per ISO 15407-2  Sensor connection Pilot exhaust air port 82/84  Ducted Not ducted Optionally:  Pneumatic connection S  Pheumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2	Temperature of medium	-5 °C50 °C
Noise level 85 dB(A) Ambient temperature -5° C50° C  Max. tightening torque for valve mounting 0.8 Nm1.2 Nm  Product weight 157 g  DC sensor operating voltage range 10 V30 V  Sensor short circuit protection Pulsed  Sensor idea current 10 mA  Max. output current, sensor 200 mA  Sensor wax. switching frequency 5000 Hz  Sensor voltage drop 2 V  Electrical connection 4-pin Plug as per ISO 15407-2  Sensor connection Pilot exhaust air port 82/84  Ducted Not ducted Optionally:  Pneumatic connection S  Pheumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection S  Sub-base, size 18 mm as per ISO 15407-2	Relative air humidity	0 - 90 %
Ambient temperature 5- °C50 °C  Max. tightening torque for valve mounting 0.8 Nm1.2 Nm  Product weight 157 g  DC sensor operating voltage range 10 V30 V  Sensor short circuit protection Pulsed  Sensor idei current 10 m A  Max. output current, sensor 200 mA  Sensor residual ripple ±10 %  Sensor voltage drop 2 V  Electrical connection 4 Plug Cable 4-pin M12x1 0.5 m  M12x1 0.5 m  Type of mounting 10 m sub-base  Pilot exhaust air port 82/84  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 3 Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2	·	85 dB(A)
Product weight 157 g  DC sensor operating voltage range 10 V30 V  Sensor short circuit protection Pulsed  Sensor idle current 10 mA  Max. output current, sensor 200 mA  Sensor max. switching frequency 5000 Hz  Sensor rostidual ripple ± 10 %  Sensor voltage drop 2 V  Electrical connection 4 4-pin Puls as per ISO 15407-2  Plug Cable 4-ypin M12x1 0.5 m  Type of mounting 0 no sub-base  Pilot exhaust air port 82/84  Pheumatic 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  Pneumatic connection 4 Sub-base, size 18 mm as per ISO 15407-2	Ambient temperature	
Product weight 157 g  DC sensor operating voltage range 10 V30 V  Sensor short circuit protection Pulsed  Sensor idle current 10 mA  Max. output current, sensor 200 mA  Sensor max. switching frequency 5000 Hz  Sensor rostidual ripple ± 10 %  Sensor voltage drop 2 V  Electrical connection 4 4-pin Puls as per ISO 15407-2  Plug Cable 4-ypin M12x1 0.5 m  Type of mounting 0 no sub-base  Pilot exhaust air port 82/84  Pheumatic 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  Pneumatic connection 4 Sub-base, size 18 mm as per ISO 15407-2	Max. tightening torque for valve mounting	0.8 Nm1.2 Nm
DC sensor operating voltage range  Pulsed  Sensor short circuit protection  Pulsed  Sensor idle current  10 mA  Max. output current, sensor  Sensor max. switching frequency  Sensor residual ripple  £ 10 %  Sensor voltage drop  Electrical connection  Plug as per ISO 15407-2  Sensor connection  Plug Cable 4-pin M12x1 0.5 m  Type of mounting  Pilot air port 12/14  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  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2		157 g
Sensor short circuit protection       Pulsed         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 Cable 4-pin M12x1 0.5 m         Vision 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       Ducted Not ducted Optionally:         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         Pneumatic connection 4       Sub-base, size 18 mm as per ISO 15407-2         Pneumatic connection 4       Sub-base, size 18 mm as per ISO 15407-2         Pneumatic connection 5       Sub-base, size 18 mm as per ISO 15407-2         Pneumatic connection 5       Sub-base, size 18 mm as per ISO 15407-2	-	_
Sensor idle current  Max. output current, sensor  Sensor max. switching frequency  Sensor residual ripple  ± 10 %  Sensor voltage drop  Electrical connection  Plug Cable 4-pin M1x1 0.5 m  Type of mounting  Pilot air port 12/14  Pilot exhaust air port 82/84  Pineumatic connection 1  Sensor sonection 2  Penumatic connection 2  Penumatic connection 3  Sub-base, size 18 mm as per ISO 15407-2  Penumatic connection 3  Sub-base, size 18 mm as per ISO 15407-2  Penumatic connection 3  Sub-base, size 18 mm as per ISO 15407-2  Penumatic connection 3  Sub-base, size 18 mm as per ISO 15407-2  Penumatic connection 3  Sub-base, size 18 mm as per ISO 15407-2  Penumatic connection 3  Sub-base, size 18 mm as per ISO 15407-2  Penumatic connection 3  Sub-base, size 18 mm as per ISO 15407-2  Penumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Penumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Penumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Penumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Penumatic connection 5	· · · · · · · · · · · · · · · · · · ·	Pulsed
Max. output current, sensor200 mASensor max. switching frequency5000 HzSensor residual ripple± 10 %Sensor voltage drop2 VElectrical connection4-pin Plug as per ISO 15407-2Sensor connectionPlug Cable 4-pin M12x1 0.5 mType of mountingOn sub-basePilot air port 12/14Sub-base, size 18 mm as per ISO 15407-2Pilot exhaust air port 82/84Ducted Not ducted Optionally:Pneumatic connection 1Sub-base, size 18 mm as per ISO 15407-2Pneumatic connection 2Sub-base, size 18 mm as per ISO 15407-2Pneumatic connection 3Sub-base, size 18 mm as per ISO 15407-2Pneumatic connection 4Sub-base, size 18 mm as per ISO 15407-2Pneumatic connection 5Sub-base, size 18 mm as per ISO 15407-2Pneumatic connection 4Sub-base, size 18 mm as per ISO 15407-2Pneumatic connection 5Sub-base, size 18 mm as per ISO 15407-2Sub-base, size 18 mm as per ISO 15407-2Pneumatic connection 5Sub-base, size 18 mm as per ISO 15407-2	Sensor idle current	10 mA
Sensor residual ripple  Sensor voltage drop  Electrical connection  \$\frac{4-\text{pin}}{Plug}{Plug}{\text{as per ISO 15407-2}}\$  Sensor connection  \$\frac{Plug}{Cable}{\text{4-pin}}{\text{M12x1}}{\text{0.5 m}}\$  Type of mounting  \$\text{On sub-base}{\text{Pilot air port 12/14}}\$  Pilot exhaust air port 82/84  \$\text{Ducted}{\text{Not ducted}}{\text{Not ducted}}{\text{Optionally:}}\$  Pneumatic connection 1  \$\text{Sub-base, size 18 mm as per ISO 15407-2}\$  Pneumatic connection 2  \$\text{Sub-base, size 18 mm as per ISO 15407-2}\$  Pneumatic connection 3  \$\text{Sub-base, size 18 mm as per ISO 15407-2}\$  Pneumatic connection 4  \$\text{Sub-base, size 18 mm as per ISO 15407-2}\$  Pneumatic connection 5  \$\text{Sub-base, size 18 mm as per ISO 15407-2}\$  Pneumatic connection 4  \$\text{Sub-base, size 18 mm as per ISO 15407-2}\$  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  \$\text{Sub-base, size 18 mm as per ISO 15407-2}\$  Pneumatic connection 5	Max. output current, sensor	
Sensor voltage drop  Electrical connection  A-pin Plug as per ISO 15407-2  Sensor connection  Plug Cable 4-pin Plug And 12x1 0.5 m  Type of mounting  On sub-base Pilot air port 12/14  Sub-base, size 18 mm as per ISO 15407-2  Plude Not ducted Optionally:  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  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  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5	Sensor max. switching frequency	5000 Hz
Electrical connection  4-pin Plug as per ISO 15407-2  Sensor connection  Plug Cable 4-pin M12x1 0.5 m  Type of mounting  On sub-base Pilot air port 12/14  Sub-base, size 18 mm as per ISO 15407-2  Plug Cable 4-pin M12x1 0.5 m  Type of mounting  On 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 3  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5	Sensor residual ripple	± 10 %
Electrical connection  4-pin Plug as per ISO 15407-2  Sensor connection  Plug Cable 4-pin M12x1 0.5 m  Type of mounting  On sub-base Pilot air port 12/14  Sub-base, size 18 mm as per ISO 15407-2  Plug Not ducted Optionally:  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  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5	Sensor voltage drop	2 V
Plug cas per ISO 15407-2  Sensor connection  Plug Cable 4-pin M12x1 0.5 m  Type of mounting  On sub-base Pilot air port 12/14  Sub-base, size 18 mm as per ISO 15407-2  Plug Cable 4-pin M12x1 0.5 m  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 3  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2	Electrical connection	4-pin
Sensor connection  Plug Cable 4-pin M12x1 0.5 m  Type of mounting  On sub-base Pilot air port 12/14  Pilot exhaust air port 82/84  Ducted Not ducted Optionally:  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  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  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  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2		
Cable 4-pin M12x1 0.5 m  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 Ducted Not ducted Optionally: 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 Pneumatic connection 4 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 5 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		'
4-pin M12x1 0.5 m  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 Ducted Not ducted Optionally: 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 Pneumatic connection 4 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2	Sensor connection	I =
Type of mountingOn sub-basePilot air port 12/14Sub-base, size 18 mm as per ISO 15407-2Pilot exhaust air port 82/84Ducted Not ducted Optionally:Pneumatic connection 1Sub-base, size 18 mm as per ISO 15407-2Pneumatic connection 2Sub-base, size 18 mm as per ISO 15407-2Pneumatic connection 3Sub-base, size 18 mm as per ISO 15407-2Pneumatic connection 4Sub-base, size 18 mm as per ISO 15407-2Pneumatic connection 5Sub-base, size 18 mm as per ISO 15407-2Sub-base, size 18 mm as per ISO 15407-2		
Type of mounting  Pilot air port 12/14  Pilot exhaust air port 82/84  Pilot exhaust air port 82/84  Ducted Not ducted Optionally:  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  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  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		
Pilot air port 12/14  Pilot exhaust air port 82/84  Ducted Not ducted Optionally:  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  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  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	Type of mounting	
Pilot exhaust air port 82/84  Ducted Not ducted Optionally:  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  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2  Sub-base, size 18 mm as per ISO 15407-2		
Not ducted Optionally:  Pneumatic connection 1  Pneumatic connection 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  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  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  Pneumatic connection 4  Sub-base, size 18 mm as per ISO 15407-2  Pneumatic connection 5  Sub-base, size 18 mm as per ISO 15407-2	Prior extraust air port 82/84	Not ducted
Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 4 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 5 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 4 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 5 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 5 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 4	Sub-base, size 18 mm as per ISO 15407-2
Note on materials RoHS-compliant	Pneumatic connection 5	Sub-base, size 18 mm as per ISO 15407-2
	Note on materials	RoHS-compliant

Feature	Value
Seals material	FPM NBR
Housing material	Die-cast aluminum PA
Material of screws	Steel, galvanized
Switching element function	N/C contact