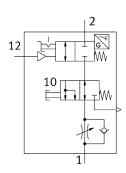
Shut-off valve VBOC-L2-E-S7-P-M12-G38-E Part number: 8177445

FESTO





Data sheet

Feature	Value
Valve function	2/2, closed, monostable
Selection of additional function	Exhaust air flow control non-return function
Pneumatic connection 1	G3/8
Pneumatic connection 2	G3/8
Actuation type	Pneumatic
Type of mounting	Screw-in With external thread
Nominal flow rate in flow control direction standardized according to ISO 8778	430 l/min
Nominal flow rate in non-return direction standardized according to ISO 8778	640 l/min730 l/min
Standard flow rate in flow control direction 0.6->0 MPa (6->0 bar, 87->0 psi) to ISO 8778	670 l/min
Standard flow rate in non-return direction at 0.6->0 MPa (6->0 bar, 87->0 psi) to ISO 8778	1080 l/min1250 l/min
Operating pressure	0.05 MPa1 MPa 0.5 bar10 bar
Ambient temperature	-5 °C60 °C
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Mounting position	Any
Selection of additional function 2	Manual exhaust
Special features	Resistant to welding spatter
Type of seal on screwed plug	Sealing ring
Manual override	Detenting
Reset method	Mechanical spring
Pilot air supply port	External

Switching element function Note on forced dynamization Stream elements of the production for all electrical connections Note on forced dynamization Surface position sensing Switch oil pressure OLGS MPaO.2 MPa Switch oil pressure OLGS MPaO.4 MPa Plito pressure OLGS MPaO.4 MPa Plito pressure OLGS MPaO.4 MPa Plito pressure Billion for any of the production of the surface position with sensor Switching position sensing OLG MPaO.4 MPa Plito pressure OLGS MPaO.4 MPa Plito pressure Billion for any old MPaO.4 MPa John switching time of a part of any old MPaO.4 MPa John switching output Domainal operating voltage DC Switching output Domainal operating voltage DC John Switching output Domainal operating voltage for goutput of any old MPaO.4 MPa	Feature	Value
Switching element function Note on forced dynamization Stream elements of the production for all electrical connections Note on forced dynamization Surface position sensing Switch oil pressure OLGS MPaO.2 MPa Switch oil pressure OLGS MPaO.4 MPa Plito pressure OLGS MPaO.4 MPa Plito pressure OLGS MPaO.4 MPa Plito pressure Billion for any of the production of the surface position with sensor Switching position sensing OLG MPaO.4 MPa Plito pressure OLGS MPaO.4 MPa Plito pressure Billion for any old MPaO.4 MPa John switching time of a part of any old MPaO.4 MPa John switching output Domainal operating voltage DC Switching output Domainal operating voltage DC John Switching output Domainal operating voltage for goutput of any old MPaO.4 MPa	Manual exhaust function	Non-detenting
Rotatability Sensor reverse pointry protection For all electrical connections Note on forced dynamization Current information on this issue can be found in Technical Report V Switching position sensing Normal position with sensor Switch of pressure 0.15 MPa0.2 MPa Switch-on pressure 0.15 MPa0.4 MPa Pliot pressure 0.15 MPa0.4 MPa Pliot pressure Priot pressure 1 bar10 bar Pliot pressure Priot pressure Priot pressure 1 bar10 bar Pliot pressure Priot Pr	Measuring principle	Inductive
Sensor reverse polarity protection Note on forced dynamization Surced inforced dynamization Surced inforced dynamization Switch off pressure O,05 MPaO,2 MPa Switch off pressure O,05 MPaO,2 MPa Switch off pressure O,05 MPaO,2 MPa O,15 MPaO,4 MPa Permunatic off range O,44 MPa Pilot pressure MPa Pilot pressure psi I4.5 psi10 bar Pilot pressure psi I4.5 psi10 bar O, switching time off O, switching coupput PMP Nominal operating voltage DC Switching output Information on operating and pilot media Operation with oil tubrication possible (required for further use) Corrosion resistance class (CRC) 2. Moderate corrosion sitess VDMA24364 cancell Switching for the production of Li-ion batteries Suitability for the production of Li-i	Switching element function	N/C contact
Note on forced dynamization Current information on this issue can be found in Technical Report V Switch-off pressure O.O.S MPa O.J MPa Switch-off pressure O.O.S MPa O.J MPa Pheumatic off range O.O.4 MPa Pheumatic off range O.O.4 MPa Pliot pressure PA O.O.4 MPa Pliot pressure PB I bar 10 bar Pliot pressure psi Switching time off On switching time Operation on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class CRC) LABS (PWIS) conformity VDMA24364 zone III Suitablify for the production of Li-ion batteries Switchild the production of Li-ion batteries Switchild the production of Li-ion batteries Switchild the production of Li-ion batteries Outperfacility VDMA24364 zone III Suitable for battery production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cul/Zn/Mi Normal tightening torque 13 Nm Temperature of medium Omnerssed air as per 150 85/3-1:2010 [7-4-4] Normal tightening torque 13 Nm Tolerance for norminal tightening torque 13 Nm Tolerance for norminal tightening torque 2.5 Nm Product weight OC sensor operating voltage range 10 V30 V Sensor short circuit protection Yes Sensor short circuit protection Yes Sensor short circuit protection Switching output Electrical connection 1, function Switching output Electrical connection 1, connection type El	Rotatability	360 deg/continuous swiveling not permissible
Switching position sensing Mormal position with sensor O.05 MPaO.2 MPa O.15 MPaO.2 MPa Pneumatic off range O.04 MPa Pliot pressure Poliot pressure APa O.15 MPaO.2 MPa O.16 MPa I M	Sensor reverse polarity protection	For all electrical connections
Switch-off pressure 0.05 MPa0.2 MPa Switch-off pressure 0.05 MPa0.4 MPa Plot pressure MPa Plot pressure MPa Plot pressure MPa Plot pressure MPa 1 bar10 bar Plot pressure psi Switching time off 25 ms On switching time off On switching time 10 ms Nominal operating voltage DC Switching output PNP Product a class (RC) LABS (PWIS) conformity Suitability for the production of Li-lon batteries Suitability for battery production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni Suitability for the production of Li-lon batteries Suitability for battery production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni Suitability for the production of Li-lon batteries Suitability for battery production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni Suitability for the production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni Suitability for the production in accordance with Festo's internal severity product	Note on forced dynamization	Current information on this issue can be found in Technical Report V
Switch-on pressure O.15 MPa0.4 MPa Pneumatic off range O.04 MPa O.1 MPa1 MPa Pilot pressure MPa O.1 MPa1 MPa Pilot pressure Pilot	Switching position sensing	Normal position with sensor
Pilot pressure MPa 10 pressure MPa 10 pressure MPa 10 pressure MPa 10 pressure MPa 10 pressure psi 14.5 psi145 psi 5witching time of 25 ms 30 ms	Switch-off pressure	0.05 MPa0.2 MPa
Pilot pressure MPa 1 har10 har Pilot pressure psi 1 har10 har Pilot pressure psi 1 har10 har 1 har10 har Pilot pressure psi 1 har10 har 1 har10 har Pilot pressure psi 1 har10 har 1 har10 har10 har10 har 1 har10 ha	Switch-on pressure	0.15 MPa0.4 MPa
Pilot pressure pilot	Pneumatic off range	0.04 MPa
Filiot pressure psi Switching time off 25 ms Nominal operating voltage DC Switching output Information on operating voltage DC Switching output Information on operating and pilot media Corrosion resistance class (CRC) LABS (PWIS) conformity VDMA24364 zone III Suitability for the production of Li-ion batteries Suitability for the production of Li-ion batteries UDMA24364 zone III Suitability for the production of Li-ion batteries Suitability for the production of Li-ion batteries Suitability for the production of Li-ion batteries UDMA24364 zone III Suitability for the production of Li-ion batteries Suitability for the production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni Temperature of medium Society of Compressed air as per ISO 8573-1:2010 [7:4:4] Nominal tightening torque 13 Nm Tolerance for nominal tightening torque 12.0% Permissible actuation moment, adjusting screw 2.5 Nm Product weight DC sensor operating voltage range 10 V30 V Sensor officiult protection yes Sensor idle current 10 mA Max. output current, sensor Sensor voltage drop 3 V Electrical connection 1, function Switching output Electrical connection 1, function Switching output Electrical connection 1, connection technology Electrical connection 1, connection technology Electrical connection 1, connection technology Electrical connection 1, number of pins/wires 4 Electrical connection 1, number of pins/wires 3 Cable length Note on materials Rolfs-compliant HNBR NRR TE-U(PU) Material of cable sheath PVC Kourled nut material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Wrought aluminum alloy Hagh-alloy stainless steel	Pilot pressure MPa	0.1 MPa1 MPa
Switching time off On switching time 10 ms Nominal operating voltage DC Switching output PNP Information on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 2 - Moderate corrosion stress Cards (CRC) Suitability for the production of Li-ion batteries Suitability for the production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu/Zn/NP Cu/Zn/NP Suitability for the production of Li-ion batteries Suitabile for battery production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu/Zn/NP Sementative for medium Compressed air as per ISO 8573-1:2010 [7:4:4] Some product weight Compressed air as per ISO 8573-1:2010 [7:4:4] Some product weight Compressed air as per ISO 8573-1:2010 [7:4:4] Some product weight Compressed air as per ISO 8573-1:2010 [7:4:4] Some product weight Compressed air as per ISO 8573-1:2010 [7:4:4] Some product weight Compressed air as per ISO 8573-1:2010 [7:4:4] Some product weight Compressed air as per ISO 8573-1:2010 [7:4:4] Some product weight Compressed air as per ISO 8573-1:2010 [7:4:4] Some product weight Compressed air as per ISO 8573-1:2010 [7:4:4] Some product weight Compressed air as per ISO 8573-1:2010 [7:4:4] Some product weight Compressed air as per ISO 8573-1:2010 [7:4:4] Some product weight Compressed air as per ISO 8573-1:2010 [7:4:4] Some product weight Compressed air as per ISO 8573-1:2010 [7:4:4] Some product weight Compressed ai	Pilot pressure	1 bar10 bar
On switching time 10 ms Nominal operating voltage DC 2 A V Switching output Information on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 2 - Moderate corrosion stress Corrosion resistance class (CRC) LABS (PWIS) conformity VDMA24364 zone III Suitability for the production of Li-ion batteries Suitability for the production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu/Zn/In/Ni Temperature of medium 5° C°60 °C Compressed air as per ISO 8573-1:2010 [7:4:4] Nominal tightening torque 2 20% Permissible actuation moment, adjusting screw 2.5 Nm Product weight 21 6 g Cosensor operating woltage range 10 V30 V Sensor short circuit protection yes Sensor short	Pilot pressure psi	14.5 psi145 psi
On switching time 10 ms Nominal operating voltage DC 2 A V Switching output Information on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 2 - Moderate corrosion stress Corrosion resistance class (CRC) LABS (PWIS) conformity VDMA24364 zone III Suitability for the production of Li-ion batteries Suitability for the production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu/Zn/In/Ni Temperature of medium 5° C°60 °C Compressed air as per ISO 8573-1:2010 [7:4:4] Nominal tightening torque 2 20% Permissible actuation moment, adjusting screw 2.5 Nm Product weight 21 6 g Cosensor operating woltage range 10 V30 V Sensor short circuit protection yes Sensor short	Switching time off	25 ms
Switching output Information on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 2 - Moderate corrosion stress VDMA24364 zone III Suitability for the production of Li-ion batteries Suitability for the production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni Temperature of medium Compressed air as per ISO 8573-1:2010 [7:4:4] Nominal tightening torque 13 Nm Compressed air as per ISO 8573-1:2010 [7:4:4] Nominal tightening torque 220% Permissible actuation moment, adjusting screw 2.5 Nm Permissible actuation moment, adjusting screw 2.5 Nm Permissible actuation moment, adjusting screw 2.5 Nm Sensor short circuit protection yes Sensor idle current 10 nm A Ax. output current, sensor 200 mm Sensor voltage drop 3 V Sensor voltage drop 3 V Selectrical connection 1, function Switching output Electrical connection 1, connection type Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, number of pins/wires 4 Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, conception technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, conception technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, worth pins/wires 4 Electrical connection 1, worth pins/wires And Berger Connection 1, woreas and pins pins pins pins pins pins pins pins		10 ms
Information on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 2 - Moderate corrosion stress VDMA24364 zone III Suitability for the production of Li-ion batteries Suitability for the production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni Temperature of medium -5 °C60 °C Compressed air as per ISO 8573-1:2010 [7:4:4] Nominal tightening torque 13 Nm -10 learned for nominal tightening torque 2.5 Nm -10 learned for nominal tightening torque 3 Vessor of particular for nominal tightening torque 3 Vessor of the learned for nominal tightening torque 3 Vessor of the learned for nominal tightening torque 3 Vessor of the learned for nominal tightening torque 3 Vessor of the learned for nominal tightening torque 3 Vessor of the learned for nominal	Nominal operating voltage DC	24 V
Corrosion resistance class (CRC) LABS (PWIS) conformity VDMA24364 zone III Suitability for the production of Li-ion batteries Suitability for the production of Li-ion batteries Suitability for the production of Li-ion batteries Suitability for the production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni Temperature of medium Compressed air as per ISO 8573-1:2010 [7:4:4] Nominal tightening torque 13 Nm Tolerance for nominal tightening torque 2-20% Permissible actuation moment, adjusting screw 2-5 Nm Product weight 216 g DC sensor operating voltage range 10 V30 V Sensor short circuit protection yes Sensor short circuit protection yes Sensor voltage drop 3 V Electrical connection 1, function Switching output Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection technology Electrical connection 1, nonection technology Electrical connection 1, not coupled pins/wires 4 Electrical connection 1, occupied pins/wires 4 Electrical connection 1, occupied pins/wires 3 Cable length Note on materials RoH5-compliant Seals material Wrought aluminum alloy Material of cable sheath Mrought aluminum alloy Material of adjusting screw High-alloy stainless steel Swivel joint material Wrought aluminum alloy High-alloy stainless steel	Switching output	PNP
LABS (PWIS) conformity VDMA24364 zone III Suitability for the production of Li-ion batteries Suitable for battery production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of CU/Zn/Ni Temperature of medium -5°C60°C Compressed air as per ISO 8573-1:2010 [7:4:4] Nominal tightening torque 13 Nm Tolerance for nominal tightening torque 2 20% Permissible actuation moment, adjusting screw 2.5 Nm Product weight Co sensor operating voltage range 10 V30 V Sensor short circuit protection yes Sensor short circuit protection Wax. output current 10 mA Max. output current, sensor Sensor voltage drop Electrical connection 1, function Switching output Electrical connection 1, connection type Cable with plug Electrical connection 1, connection type Electrical connection 1, number of pins/wires 4 Electrical connection 1, number of pins/wires 4 Electrical connection 1, ocupied pins/wires 3 Cable length Note on material HNBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of adjusting screw Migh-alloy stainless steel Swivel joint material Wrought aluminum alloy High-alloy stainless steel	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Suitability for the production of Li-ion batteries Suitability for the production of Li-ion batteries Suitability for the production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu/2n/Ni Temperature of medium -5 °C60 °C Pilot medium Compressed air as per ISO 8573-1:2010 [7:4:4] Nominal tightening torque 13 Nm Tolerance for nominal tightening torque 2 20% Permissible actuation moment, adjusting screw 2.5 Nm Product weight DC sensor operating voltage range 10 V30 V Sensor short circuit protection Ves Sensor short circuit protection Wes Sensor voltage drop 3 V Electrical connection 1, function Electrical connection 1, connection type Electrical connection 1, connection technology Electrical connection 1, connection technology Electrical connection 1, connection technology Electrical connection 1, occupied pins/wires 4 Electrical connection 1, occupied pins/wires 3 Cable length Pilot air port 12 Note on materials RoH5-compliant Seals material HNBR NBR TE-U(PU) Hollow bolt material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Wrought aluminum alloy Haterial of adjusting screw Wrought aluminum alloy High-alloy stainless steel	Corrosion resistance class (CRC)	2 - Moderate corrosion stress
definition in degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni Temperature of medium 5° C60°C Pilot medium Compressed air as per ISO 8573-1:2010 [7:4:4] Nominal tightening torque 13 Nm Tolerance for nominal tightening torque 220% Permissible actuation moment, adjusting screw 2.5 Nm Product weight DC sensor operating voltage range 10 V30 V Sensor short circuit protection yes Sensor short circuit protection yes Sensor short circuit protection Wax. output current, sensor Sensor voltage drop Electrical connection 1, function Electrical connection 1, function Switching output Electrical connection 1, connection type Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, number of pins/wires 4 Electrical connection 1, occupied pins/wires 3 Cable length O.3 m Pilot air port 12 G1/8 Note on materials RoHS-compilant HNBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Wrought aluminum alloy Haderial of adjusting screw High-alloy stainless steel	LABS (PWIS) conformity	VDMA24364 zone III
Pilot medium Compressed air as per ISO 8573-1:2010 [7:4:4] Nominal tightening torque 13 Nm Tolerance for nominal tightening torque ± 20% Permissible actuation moment, adjusting screw 2.5 Nm Product weight 216 g DC sensor operating voltage range 10 V30 V Sensor operating voltage range 10 mA Max. output current, sensor 200 mA Sensor voltage drop 3 V Electrical connection 1, function Switching output Electrical connection 1, function Switching output Electrical connection 1, connection tethnology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, number of pins/wires 4 Electrical connection 1, occupied pins/wires 3 Cable length 0.3 m Pilot air port 12 G1/8 Note on material Robertson Seals material HNBR NBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Swivel joint material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel	Suitability for the production of Li-ion batteries	definition in degree of severity F1A with restrictions regarding the use of
Nominal tightening torque 13 Nm Tolerance for nominal tightening torque 220% Permissible actuation moment, adjusting screw 2.5 Nm Product weight 216 g DC sensor operating voltage range 10 V30 V Sensor short circuit protection yes Sensor short circuit protection 30 MA Max. output current 10 mA Max. output current, sensor 200 mA Sensor voltage drop 31 V Electrical connection 1, function Switching output Electrical connection 1, connection type Cable with plug Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, number of pins/wires 4 Electrical connection 1, occupied pins/wires 3 Cable length 0.3 m Pilot air port 12 G1/8 Note on materials RoHS-compliant HNBR NBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of adplusting screw High-alloy stainless steel Swivel joint material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel	Temperature of medium	-5 °C60 °C
Tolerance for nominal tightening torque ± 20% Permissible actuation moment, adjusting screw 2.5 Nm Product weight 216 g DC sensor operating voltage range 10 V30 V Sensor operating voltage range 10 V30 V Sensor short circuit protection yes Sensor idle current 10 mA Max. output current, sensor 200 mA Sensor voltage drop 3 V Electrical connection 1, function Switching output Electrical connection 1, connection type Cable with plug Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, number of pins/wires 4 Electrical connection 1, occupied pins/wires 3 Cable length 0.3 m Pilot air port 12 G1/8 Note on materials Rohls-compliant Seals material Wrought aluminum alloy Material of cable sheath PVC Knurled nut material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Wrought aluminum alloy High-alloy stainless steel	Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Permissible actuation moment, adjusting screw Product weight 216 g DC sensor operating voltage range 10 V30 V Sensor short circuit protection yes Sensor idle current 10 mA Max. output current, sensor 200 mA Sensor voltage drop 3 V Electrical connection 1, function Switching output Electrical connection 1, connection type Cable with plug Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, occupied pins/wires 4 Electrical connection 1, occupied pins/wires 3 Cable length 0.3 m Filot air port 12 G1/8 Note on materials RoHS-compliant HNBR NBR TPE-U(PU) Hollow bolt material HNBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of cable sheath PVC Knurled nut material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Wrought aluminum alloy Mrought aluminum alloy	Nominal tightening torque	13 Nm
Product weight 216 g DC sensor operating voltage range 10 V30 V Sensor short circuit protection yes Sensor short circuit protection yes Sensor idle current 10 mA Max. output current, sensor 200 mA Sensor voltage drop 3 V Electrical connection 1, function Switching output Electrical connection 1, connection type Cable with plug Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, number of pins/wires 4 Electrical connection 1, occupied pins/wires 3 Cable length 0.3 m Pilot air port 12 G1/8 Note on materials RoHS-compliant Seals material HNBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of cable sheath PVC Knurled nut material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Swivel joint material Wrought aluminum alloy High-alloy stainless steel	Tolerance for nominal tightening torque	± 20%
DC sensor operating voltage range 10 V30 V Sensor short circuit protection yes Sensor idle current 10 mA Max. output current, sensor 200 mA Sensor voltage drop 3 V Electrical connection 1, function Switching output Electrical connection 1, connection type Cable with plug Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, number of pins/wires 4 Electrical connection 1, occupied pins/wires 3 Cable length 0.3 m Pilot air port 12 Note on materials RoHS-compliant Seals material HNBR NBR TPE-U(PU) Hollow bolt material Mrought aluminum alloy Material of cable sheath PVC Knurled nut material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Wrought aluminum alloy Sensor holder material High-alloy stainless steel	Permissible actuation moment, adjusting screw	2.5 Nm
Sensor short circuit protection Sensor idle current 10 mA Max. output current, sensor 200 mA Sensor voltage drop 3 V Electrical connection 1, function Switching output Electrical connection 1, connection type Cable with plug Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, number of pins/wires 4 Electrical connection 1, occupied pins/wires 3 Cable length 0.3 m Pilot air port 12 Solts amaterial Note on materials Seals material HNBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of cable sheath PVC Knurled nut material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Wrought aluminum alloy Hogh-alloy stainless steel Wrought aluminum alloy High-alloy stainless steel	Product weight	216 g
Sensor idle current Max. output current, sensor 200 mA Sensor voltage drop 3 V Electrical connection 1, function Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, number of pins/wires 4 Electrical connection 1, occupied pins/wires 3 Cable length Pilot air port 12 Note on materials Seals material HNBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of cable sheath PVC Knurled nut material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Swivel joint material Wrought aluminum alloy High-alloy stainless steel	DC sensor operating voltage range	10 V30 V
Max. output current, sensor Sensor voltage drop 3 V Electrical connection 1, function Switching output Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, number of pins/wires 4 Electrical connection 1, occupied pins/wires 3 Cable length 0.3 m Pilot air port 12 Note on materials RoHS-compliant Seals material HNBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of cable sheath PVC Knurled nut material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Swivel joint material Wrought aluminum alloy High-alloy stainless steel	Sensor short circuit protection	yes
Sensor voltage drop 3 V Electrical connection 1, function Switching output Electrical connection 1, connection type Cable with plug Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, number of pins/wires 4 Electrical connection 1, occupied pins/wires 3 Cable length 0.3 m Pilot air port 12 G1/8 Note on materials RoHS-compliant Seals material HNBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of cable sheath PVC Knurled nut material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Swivel joint material Wrought aluminum alloy Sensor holder material High-alloy stainless steel	Sensor idle current	10 mA
Electrical connection 1, function Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, number of pins/wires 4 Electrical connection 1, occupied pins/wires 3 Cable length 0.3 m Pilot air port 12 G1/8 Note on materials RoHS-compliant Seals material HNBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of cable sheath PVC Knurled nut material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Swivel joint material Wrought aluminum alloy Sensor holder material High-alloy stainless steel	Max. output current, sensor	200 mA
Electrical connection 1, connection type Electrical connection 1, connection technology Electrical connection 1, number of pins/wires Electrical connection 1, number of pins/wires Electrical connection 1, occupied pins/wires Electrical connection 1, occupied pins/wires 3 Cable length 0.3 m Pilot air port 12 G1/8 Note on materials RoHS-compliant Seals material HNBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of cable sheath PVC Knurled nut material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Swivel joint material Wrought aluminum alloy High-alloy stainless steel High-alloy stainless steel	Sensor voltage drop	3 V
Electrical connection 1, connection technology Electrical connection 1, number of pins/wires Electrical connection 1, occupied pins/wires Electrical connection 1, occupied pins/wires Cable length O.3 m Pilot air port 12 Rotts-compliant Seals material HNBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of cable sheath PVC Knurled nut material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Wrought aluminum alloy Sensor holder material High-alloy stainless steel High-alloy stainless steel	Electrical connection 1, function	Switching output
Electrical connection 1, number of pins/wires Electrical connection 1, occupied pins/wires 3 Cable length 0.3 m Pilot air port 12 Seals material HNBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Wrought aluminum alloy Sensor holder material Wrought aluminum alloy High-alloy stainless steel High-alloy stainless steel	Electrical connection 1, connection type	Cable with plug
Electrical connection 1, occupied pins/wires Cable length O.3 m Pilot air port 12 Seals material Note on materials Seals material HNBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of cable sheath PVC Knurled nut material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Swivel joint material Wrought aluminum alloy High-alloy stainless steel High-alloy stainless steel	Electrical connection 1, connection technology	M12x1 A-coded as per EN 61076-2-101
Cable length Pilot air port 12 Seals material Follow bolt material Material of cable sheath Moterial of adjusting screw Material of adjusting screw Swivel joint material Wrought aluminum alloy Mrought aluminum alloy Migh-alloy stainless steel	Electrical connection 1, number of pins/wires	4
Pilot air port 12 Note on materials Seals material HNBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of cable sheath PVC Knurled nut material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Swivel joint material High-alloy stainless steel High-alloy stainless steel	Electrical connection 1, occupied pins/wires	3
Note on materials Seals material HNBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of cable sheath PVC Knurled nut material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Swivel joint material High-alloy stainless steel High-alloy stainless steel	Cable length	0.3 m
Seals material HNBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of cable sheath PVC Knurled nut material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Swivel joint material Wrought aluminum alloy High-alloy stainless steel High-alloy stainless steel	Pilot air port 12	G1/8
NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of cable sheath PVC Knurled nut material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Swivel joint material Wrought aluminum alloy Sensor holder material High-alloy stainless steel	Note on materials	RoHS-compliant
Material of cable sheath PVC Knurled nut material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Swivel joint material Wrought aluminum alloy High-alloy stainless steel High-alloy stainless steel	Seals material	NBR
Knurled nut material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Swivel joint material Wrought aluminum alloy Sensor holder material High-alloy stainless steel	Hollow bolt material	Wrought aluminum alloy
Material of adjusting screw High-alloy stainless steel Swivel joint material Wrought aluminum alloy Sensor holder material High-alloy stainless steel	Material of cable sheath	PVC
Swivel joint material Wrought aluminum alloy Sensor holder material High-alloy stainless steel	Knurled nut material	Wrought aluminum alloy
Swivel joint material Wrought aluminum alloy Sensor holder material High-alloy stainless steel	Material of adjusting screw	High-alloy stainless steel
Sensor holder material High-alloy stainless steel		Wrought aluminum alloy
	Sensor holder material	High-alloy stainless steel
1	Locking nut material	high-alloy stainless steel