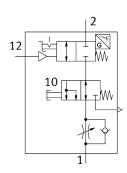
Shut-off valve VBOC-L2-E-S7-P-M12-G12-E Part number: 8177446

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	G1/2
Pneumatic connection 2	G1/2
Actuation type	Pneumatic
Type of mounting	Screw-in With external thread
Nominal flow rate in flow control direction standardized according to ISO 8778	860 l/min
Nominal flow rate in non-return direction standardized according to ISO 8778	1140 l/min1240 l/min
Standard flow rate in flow control direction 0.6->0 MPa (6->0 bar, 87->0 psi) to ISO 8778	1430 l/min
Standard flow rate in non-return direction at 0.6->0 MPa (6->0 bar, 87->0 psi) to ISO 8778	1880 l/min2100 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 Statistical position sensing Note on forced dynamization Sure on forced dynamization Switch of pressure OLGS MPaO.2 MPa Switch of pressure OLGS MPaO.4 MPa Plitor pressure OLGS MPaO.2 MPa Switching position with sensor Switch of pressure OLGS MPaO.4 MPa Plitor pressure OLG MPa OLI MPaI MPa Plitor pressure Plitor pressure OLI SWINGO.4 MPa Plitor pressure Plitor	Feature	Value
Switching element function Note on forced dynamization Statistical position sensing Note on forced dynamization Sure on forced dynamization Switch of pressure OLGS MPaO.2 MPa Switch of pressure OLGS MPaO.4 MPa Plitor pressure OLGS MPaO.2 MPa Switching position with sensor Switch of pressure OLGS MPaO.4 MPa Plitor pressure OLG MPa OLI MPaI MPa Plitor pressure Plitor pressure OLI SWINGO.4 MPa Plitor pressure Plitor	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	Measuring principle	Inductive
Sensor reverse polarity protection Note on forced dynamization Surced inforced dynamization Surced inforced dynamization Surced inforced dynamization Surced pressure 0.05 MPa0.2 MPa Switch off pressure 0.05 MPa0.2 MPa Switch off pressure 0.05 MPa0.2 MPa 0.15 MPa0.4 MPa Premunatic off range 0.04 MPa Premunatic off range 10.15 MPa0.1 MPa1 MPa Pilot pressure psi 114.5 psi10 bar Pilot pressure psi 114.5 psi10 bar 11 ms Nominal operating voltage DC Switching output 11 ms Nominal operating voltage DC Switching output 12 Mpa. 13 ms On-switching intere of On-switching course Or switching output 14 ms Nominal operating and pilot media Operation with oil tubrication possible (required for further use) Corrosion resistance class (CRC) 2. Moderate corrosion sitess VDMA24364 cancell Sutability for the production of Li-ion batteries Suitability for t	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. MPa Switch-off pressure O.O.S MPa O. MPa Pheumatic off range O.O.4 MPa Pheumatic off range O.O.4 MPa Phot pressure Pa O.O.4 MPa Pilot pressure Pa I bar 10 bar Pilot pressure psi Switching time off On switching time time time time time time time time	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 1 Dar1 MPa Pliot pressure APA O.1 MPa1 MPa Pliot pressure APA O.2 MPa1 MPa I I I I I I I I I I I I I I I I I I I	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 34 ms On switching time off On switching time 11 ms Nominal operating voltage DC Switching output PNP Product dass (RC) PNP Sulfability for the production of Li-lon batteries Sulfability for the production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu1/2n/Nil Sulfability for the production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu1/2n/Nil Sulfability for the production in accordance with Festo's internal as per ISO 8573-1:2010 [7:4:4] Sulfability for the production in accordance with Festo's internal as per ISO 8573-1:2010 [7:4:4] Sulfability for the production in accordance with Festo's internal as per ISO 8573-1:2010 [7:4:4] Sulfability for the production in accordance w	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 persure MPa 10 persure MPa 10 persure MPa 10 persure MPa 10 persure psi 14.5 psi145 psi 34 ms 34 ms 36 ms 34 ms 36 ms 36 ms 36 ms 36 ms 36 ms 36 ms 37 ms 38 ms 39 ms 39 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 3a ms On switching time off An image off On switching time off On switching time off On switching output PMP 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 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 23 Nm Tolerance for nominal tightening torque 22 Nm Product weight 39.2 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 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 Note on materials Rolfs-compliant HNBR NBR 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 11 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 Temperature of medium Compressed air as per ISO 8573-1:2010 [7:4:4] So Semonal tightening torque 23 Nm Product weight 23 Nm Product weight 39 2 g Do Sensor operating voltage range 10 V3.9 V Sensor short circuit protection yes Sensor idle current 10 mA Sundance of Card Sensor Sensor (Card Sensor Sensor Voltage of Card Sensor Sensor (Card Sensor Sens	Pilot pressure	1 bar10 bar
On switching time 11 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° CC60 °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 39 2 g Sone Sone on sone air go Visual Separate Sepa	Pilot pressure psi	14.5 psi145 psi
On switching time 11 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° CC60 °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 39 2 g Sone Sone on sone air go Visual Separate Sepa	Switching time off	34 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 23 Nm Tolerance for nominal tightening torque 22 Nm Tolerance for nominal tightening torque 23 Nm Permissible actuation moment, adjusting screw 2.5 Nm Permissible actuation moment, adjusting screw 2.5 Nm Product weight 392 g D sensor sport circuit protection yes Sensor short circuit protection yes Sensor lide current 10 mA Axa. output current, sensor 200 mA 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, 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, conception technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, worth pins/wires 4 Electrical connection 1, conception technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, worth pins/wires And Ballow bolt material Wrought aluminum alloy Hollow bolt material Wrought aluminum alloy Hollow bolt material Wrought aluminum alloy High-alloy stainless steel		11 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 23 Nm -7 Colerance for nominal tightening torque 22.5 Nm -7 Colerance for nominal tightening torque 23.7 Nm -7 Colerance for nominal tightening torque 24.5 Nm -7 Colerance for nominal tightening torque 25.5 Nm -7 Colerance for nominal tightening torque 26.5 Nm -7 Colerance for nominal tightening torque 27.5 Nm -7 Colerance for nominal tightening torque 28.7 Nm -7 Colerance for nominal tightening torque 29.8 Nm -7 Colerance for nominal tightening torque 29.8 Nm -7 Colerance for nominal tightening torque 20.9 Nm -7 Colerance for nominal tightening torque 20.5 Nm -7 Col	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 23 Nm Tolerance for nominal tightening torque 2 25 Nm Permissible actuation moment, adjusting screw 2.5 Nm Product weight 392 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, nonnection technology Electrical connection 1, occupied pins/wires 4 Electrical connection 1, occupied pins/wires 4 Electrical connection 1, occupied pins/wires 3 Cable length DO 3 m Pilot air port 12 G1/8 Note on material HNBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of cable sheath Mrought aluminum alloy Material of adjusting screw High-alloy stainless steel Swivel joint material 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 23 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 yes Sensor short circuit protection Wax. output current, sensor Sensor voltage drop Electrical connection 1, function Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, number of pins/wires 4 Electrical connection 1, number of pins/wires 4 Electrical connection 1, occupied pins/wires 4 Electrical connection 1, occupied 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 Compressed air as per ISO 8573-1:2010 [7:4:4] Nominal tightening torque 23 Nm Tolerance for nominal tightening torque 220% Permissible actuation moment, adjusting screw 2.5 Nm Product weight 392 g DC sensor operating voltage range 10 v30 v Sensor short circuit protection yes 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, cocupied 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 Swivel joint material 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 23 Nm Tolerance for nominal tightening torque 22 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/B Note on materials RoHS-compiliant HNBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of adjusting screw High-alloy stainless steel Wrought aluminum alloy Material 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 23 Nm Tolerance for nominal tightening torque ± 20% Permissible actuation moment, adjusting screw 2.5 Nm Product weight 392 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 type Cable with plug Electrical connection 1, number of pins/wires 4 Electrical connection 1, occupied pins/wires 4 Electrical connection 1, occupied pins/wires 3 Cable length 0.3 m Pilot air port 12 G1/8 Note on material RNBR 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 23 Mm Tolerance for nominal tightening torque ± 20% Permissible actuation moment, adjusting screw 2.5 Nm Product weight 392 g DC sensor operating voltage range 10 V30 V Sensor short circuit protection yes Sensor short circuit protection yes Sensor voltage drop 200 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 RoH5-compliant HNBR NBR TPE-U(PU) Hollow bolt material Wrought aluminum alloy Material of adplusting screw High-alloy stainless steel Swivel joint material High-alloy stainless steel Wrought aluminum alloy Hollow taterial 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 392 g DC sensor operating voltage range 10 V30 V Sensor operating voltage range 10 W30 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 392 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, number of 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 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 Mrought aluminum alloy Mrought aluminum alloy Mrought aluminum alloy High-alloy stainless steel	Nominal tightening torque	23 Nm
Product weight 392 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, 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 Material of adjusting screw 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	392 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	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 Material of adjusting screw Sensor holder material High-alloy stainless steel Wrought aluminum alloy Mrought 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
10	Locking nut material	high-alloy stainless steel