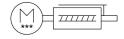
Electric cylinder unit EPCS-BS-45-150-3P-A-ST-M-H1-PLK-AA

FESTO

Part number: 8118277





Data sheet

Feature	Value
Size	45
Stroke	150 mm
Stroke reserve	0 mm
Piston rod thread	M10x1.25
Spindle diameter	10 mm
Spindle pitch	3 mm/U
Mounting position	optional
Design	Electric cylinder With ball screw drive With integrated drive
Spindle type	Ball screw drive
Protection against torque/guide	With plain-bearing guide
Rotor position sensor	Absolute single-turn encoder
Rotor position sensor, encoder measuring principle	Magnetic
Temperature monitoring	Switch-off for excessive temperature Integrated precise CMOS temperature sensor with analogue output
Additional functions	User interface Integrated end-position sensing
Display	LED
Max. acceleration	1.5 m/s ²
Max. speed	0.074 m/s
Repetition accuracy	±0.02 mm
Features of digital logic outputs	Configurable Not galvanically isolated
Duty cycle	100%
Insulation protection class	В
Max. current digital logic outputs	100 mA
Max. current consumption	3 A
Max. current consumption, logic	0.3 A
Nominal voltage DC	24 V
Nominal current	3 A
Parameterisation interface	IO-Link User interface

Pieper supply, connection type power supply, connection system Al 22x1, T-coded according to EN 61076-2-111 Approval Et mark (see declaration of conformity) To EU EMC Directive in accordance with EU RoHS Directive in accordance	Feature	Value
Dever supply, connection system All 2x1, T-coded according to EN 61076-2-111 Approval RCM trademark To EU EMC Directive In accordance with EU RoITS Directive In according to ISO 14644-1 Storage temperature In according to ISO 14644-1 Storag	Permissible voltage fluctuations	+/- 15%
Power supply, number of pins/wires A	Power supply, connection type	Plugs
Reproval Et mark (see declaration of conformity) To EU EMC Directive In accordance with EU RoHS Directive In accordance with severity level 1 to FN 942017-4 and EN 60068-2-6 Shock resistance Shock resistance class CRC O-No corresion resistance class CRC IABS (PWIS) conformity VDMA24364 zone III Class 9 according to ISO 14644-1 Storage temperature 2-0°C60°C Corresion resistance class CRC O-90% Non-condensing Degree of protection IPAO O*C50°C White temperature O*C50°C Who con ambient emperature O*C50°C What. moment MX Max. moment MX Max. moment MX Max. moment MY 2.9 Nm Max. moment MY 2.9 Nm Max. moment MY 3.2 Nm Max. moment MY 3.2 Nm Max. find in force at drive shaft 180 N Max. Edd force FR 450 N Reference value effective load, horizontal Reference value effective load, vertical 32 kg Reference value effective load, vertical 32 kg Reference value effective load, vertical 33 kg Reference value effective load, vertical 49 g Reference value effective load, vertical 40 NR Reference	power supply, connection system	M12x1, T-coded according to EN 61076-2-111
Et mark (see declaration of conformity) To EU EUR C Directive In accordance with EU ROMS Directive Transport application test with sevently level 1 to TN 942017-4 and EN 60068-2-6 Shock resistance Shock test with sevently level 1 to TN 942017-5 and EN 60068-2-77 Corosion resistance class CRC O No accordance with EU ROMS Directive Transport application test with sevently level 1 to TN 942017-5 and EN 60068-2-77 Corosion resistance class CRC O No accordance with EU ROMS 20068-2-77 Corosion resistance class CRC O No accordance with EU ROMS 2006-2008 Class 9 according to 150 14644-1 Clearnoom class Class 9 according to 150 14644-1 Clearnoom class Class 9 according to 150 14644-1 Clearnoom class Class 9 according to 150 14644-1 Class 9 according to 150	Power supply, number of pins/wires	4
In accordance with EUR BORD Sirective Withoration resistance Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6 Shock resistance Shock resistance ASS CRC O- No corrosion stress CASS (PMS) Conformity VDMA24364 zone III Clearnom class Class 9 according to ISO 14644-1 Storage temperature -20 °C60 °C Relative air humidity Non-condensing Degree of protection IP40 Non-condensing Degree of protection Power must be reduced by 2% per K at ambient temperatures above 30°C. No Relative and Assert Asse	Approval	RCM trademark
Sooks 2-6	CE mark (see declaration of conformity)	
Corrosion resistance class CRC O - No corrosion stress VDMA2364 zone III Claser operature 20 °C60 °C Class 9 according to ISO 14644-1 20 °C60 °C O - 90% Non-condensing Degree of protection Rabbient temperature O °C50 °C Note on ambient temperature Power mus be reduced by 2% per K at ambient temperatures above 30°C. Aux. moment Mix O Nm Aux. moment Mix Aux. moment Miy 2.9 Nm Max. moment Miy 2.9 Nm Max. redal force at drive shaft 190 N Max. redal force at drive shaft 450 N Reference value effective load, horizontal Reference value effective load, horizontal Reference value effective load, vertical 23 kg Moving mass for 0 mm stroke 4.9 g Product weight 1800 g Basic weight for 0 mm stroke 4.1 g Number of digital logic inputs 24 V Number of digital logic inputs O-Link, Protects es data content IN State Inermediate 1 bit State Inermediate 2 bit State Inermediate 2 bit State Inermediate 1 bit State Inermediate 2 bit State Inermediate 2 bit State Inermediate 3 bit State Inermediate 2 bit State Inermediate 3 bit State Inermediate 3 bit State Inermediate 4 bit State Inermediate 4 bit State Inermediate 5 b	Vibration resistance	
Learnorm class Class 9 according to ISO 14644-1 Clearnorm class Class 9 according to ISO 14644-1 Cl	Shock resistance	Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27
Cleanroom class Class 9 according to ISO 14644-1 Storage temperature 2-0°C60°C Relative air humidity 0-90% Non-condensing PAO O*C50°C Note on ambient temperature 0°C50°C Note on ambient temperature Note on ambient temperature Now, moment Mx O Nm Max. moment Mx 2.9 Nm Max. moment My 2.9 Nm Max. moment My 3.0°C. Now, mo	Corrosion resistance class CRC	0 - No corrosion stress
Storage temperature -20 °C60 °C Relative oir humidity 0 -90% Non-condensing Degree of protection P40 Ambient temperature 0 °C50 °C Note on ambient temperature P0wer must be reduced by 2% per K at ambient temperatures above 30°C. Note on ambient temperature P0wer must be reduced by 2% per K at ambient temperatures above 30°C. Note on ambient temperature P0wer must be reduced by 2% per K at ambient temperatures above 30°C. Note on ambient temperature P0wer must be reduced by 2% per K at ambient temperatures above 30°C. Note on ambient temperature above 30°C. Note on ambient temperatures above 30°C. Note on ambient storage 30°C. Note on ambient temperatures above 30°C. Note on ambient temperatures above 30°C. Note on ambient temperatures above 30°C. Note on ambient storage 30°C.	LABS (PWIS) conformity	VDMA24364 zone III
Relative air humidity Degree of protection Remote of protection Ambient temperature O °C50 °C Power must be reduced by 2% per K at ambient temperatures above 30°C. Awa. moment Mx O Nm Max. moment My 2.9 Nm Max. moment My Awa. moment My Max. radial force at drive shaft 180 N Max. redial force at drive shaft 450 N Reference value effective load, horizontal Reference value effective load, vertical 23 kg Moving mass for 0 mm stroke 179 g Additional moving mass per 10 mm stroke 179 g Additional moving mass per 10 mm stroke 1185 g Additional weight per 10 mm stroke 1185 g Mumber of digital logic outputs 24 V DC 2 Number of digital logic input Features of logic input Configurable Not galvanically isolated O-Link, Protecto Version O-Link, Protects data length OUT O-Link, Process data content OUT Move in 1 bit Move out 1 bit State Intermediate 1 bit State Out 1 bit State Move 1 bit Spate Out 1 bit State Move 1 bit State Out 1 bit State Move 1 bit State Out 1 bit State Intermediate 1 bit State Move 1 bit State Out 1 bit State Move 1 bit State Out 1 bit State Intermediate 1 bit State Move 1 bit State Out 1 bit State Move 1 bit State Out 1 bit State Move 1 bit State Out 1 bit State Intermediate 1 bit State Move 1 bit State Out 1 bit State Intermediate 1 bit State Move 1 bit State Out 1 bit State Move 1 bit State Out 1 bit State Move 1 bit State M	Cleanroom class	Class 9 according to ISO 14644-1
Non-condensing Degree of protection Ambient temperature O °C50 °C Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30°C. Max. moment Mx O N m Max. moment My 2.9 Nm Max. moment My 2.9 Nm Max. moment My 3.9 Nm Max. radial force at drive shaft 180 N Max. radial force at drive shaft 450 N Reference value effective load, horizontal 60 kg Reference value effective load, vertical 23 kg Moving mass for 0 mm stroke 179 g Additional moving mass per 10 mm stroke 1185 g Additional weight per 10 mm stroke 1185 g Additional weight per 10 mm stroke 1185 g Number of digital logic inputs 24 V V Features of logic input Configurable Not galvanically isolated O-Link, Proteol version O-Link, Proteos data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move intermediate 1 bit State Out 1 bit State In 1 bit State Out 1	Storage temperature	-20 °C60 °C
Ambient temperature Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30°C. Max. moment Mx O Nm Max. moment My 2.9 Mm Max. moment Mz 2.9 Nm Max. radial force at drive shaft 180 N Max. feed force Fx 450 N Reference value effective load, horizontal 60 kg Reference value effective load, horizontal 80 kg Reference value effective load, vertical 23 kg Moving mass for 0 mm stroke 179 g 84ditional moving mass per 10 mm stroke 1185 g 84ditional moving mass per 10 mm stroke 1185 g 84ditional weight per 10 mm stroke 1185 g 84ditional weight per 10 mm stroke 44 g Number of digital logic outputs 24 V DC 2 Valumber of digital logic inputs 2 AV Configurable Not galvanically isolated O-Link, Protocol version O-Link, Protocss data content OUT Move in 1 bit Move in 1 bit Move out 1 bit State Intermediate 1 bit State Intermediate 1 bit State Intermediate 1 bit State Intermediate 1 bit State Note 2 bit speed O-Link, Process data Content IN 2 bit speed O-Link, Process data Ing O-Link, Process data Ing O-Link, Process data Ing O-Link, Process data Ing O-Link, Process data Content IN State Device 1 bit State Intermediate 1 bit State Nove 1 bit State	Relative air humidity	
Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30°C. Max. moment Mx O Nm Ax. moment My 2.9 Nm Max. moment Mz 2.9 Nm Max. redial force at drive shaft 180 N Ax. feed force Fx As 50 N Reference value effective load, horizontal 86 kg Reference value effective load, vertical 23 kg Moving mass for 0 mm stroke 179 g Additional moving mass per 10 mm stroke 1800 g Basic weight for 0 mm stroke 1185 g Additional weight per 10 mm stroke 41 g Number of digital logic outputs 24 V DC Number of digital logic input Co-flink, Protocol version O-Link, Prot class A O-Link, Prot class A O-Link, Process data content IN O-Link, Process data content OUT Move in 1 bit Move unt 1 bit O-Link, Process data content IN State Device V 1.1 Co-Link, Process data content IN State Intermediate 1 bit State Intermediate 1 bit State Intermediate 1 bit State Intermediate 1 bit State Out	Degree of protection	IP40
Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30°C. Max. moment Mx Ava. moment My 2.9 Nm Max. moment Mz 2.9 Nm Max. radial force at drive shaft 180 N Max. redial force at drive shaft 860 kg Reference value effective load, horizontal 860 kg Reference value effective load, vertical 23 kg Moving mass for 0 mm stroke 179 g Additional moving mass per 10 mm stroke 4.9 g Product weight 1800 g Basic weight for 0 mm stroke 41 g Number of digital logic outputs 24 V DC Number of digital logic input Co-flink, Protocol version O-Link, Protocol version O-Link, Protocol version O-Link, Process data content IN O-Link, Process data content OUT Move in 1 bit Move in 1 bit Move in 1 bit State Intermediate 1 bit State Out 1 bit State Intermediate 1 bit State Out 1 bit State Intermediate 1 bit State Out 1	Ambient temperature	0 °C50 °C
Max. moment My 2.9 Nm Max. moment Mz 2.9 Nm Max. moment Mz 2.9 Nm Max. moment Mz 3.9 Nm Max. feed force Fx 450 N Reference value effective load, horizontal 60 kg Reference value effective load, vertical 23 kg Mowing mass for 0 mm stroke 179 g Additional moving mass per 10 mm stroke 179 g Additional moving mass per 10 mm stroke 1800 g Basic weight for 0 mm stroke 4.9 g Product weight 1800 g Basic weight for 0 mm stroke 41 g Number of digital logic outputs 24 V DC 2 Number of digital logic outputs 24 V DC 2 Number of logic input Configurable Not galvanically isolated O-Link, Protocol version O-Link, Port class A O-Link, Process data content OUT Move out 1 bit Move in 1 bit Move out 1 bit Quit Error 1 bit Move out 1 bit State In 1 bit State In 1 bit State Intermediate 1 bit State Intermediate 1 bit State Move 1 bit State Move 1 bit State Move 1 bit State Intermediate 1 bit State Move 1 bit State Move 1 bit State Move 1 bit State Intermediate 1 bit State Move 1 bit State Intermediate 1 bit State Intermediate 1 bit State Move 1 bit State Move 1 bit State Move 1 bit State Intermediate 1 bit State Move 1 bit State Move 1 bit State Intermediate 1 bit State Move 1 bit State Move 1 bit State Move 1 bit State Intermediate 1 bit State Move 1 bit State Move 1 bit State Move 1 bit State Move 1 bit State Intermediate 1 bit State Move 1 bit State Intermediate 1 bit State Move 1 bit State Move 1 bit State Intermediate 1 bit State Intermediate 1 bit State Move 1 bit State Intermediate 1 bit State Move 1 bit St	Note on ambient temperature	
Max. moment Mz 2.9 Nm Max. radial force at drive shaft 180 N 450 N Reference value effective load, horizontal 8eference value effective load, vertical 23 kg Moving mass for 0 mm stroke 179 g Additional moving mass per 10 mm stroke 4.9 g Product weight 8asic weight for 0 mm stroke 41 g Number of digital logic outputs 24 V DC 2 Number of digital logic input Working range of logic input Configurable Not galvanically isolated O-Link, Protocol version O-Link, Protocol version O-Link, Process data content OUT Move in 1 bit Move intermediate 1 bit State Intermediate 1 bit State New 1 bit State New 1 bit State Move 1 bit State Mo	Max. moment Mx	O Nm
Max. radial force at drive shaft Max. feed force Fx 450 N Reference value effective load, horizontal 60 kg Reference value effective load, vertical 779 g Additional moving mass for 0 mm stroke Additional moving mass per 10 mm stroke Product weight 880 g 88asic weight for 0 mm stroke 1185 g Additional weight per 10 mm stroke 1185 g Additional weight per 10 mm stroke 1185 g Number of digital logic outputs 24 V DC Number of digital logic inputs Preatures of logic input Configurable Not galvanically isolated O-Link, Protocol version O-Link, Port class A O-Link, Number of ports 1 O-Link, Process data length OUT O-Link, Process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move out 1 bit State Device 1 bit State In 1 bit State Unt State Unt State Unt State Unt State Unt State Unterwediate 1 bit State Unt State Unt State Unt State Unt State Unterwediate 1 bit State Unt State Unterwediate 1 bit State	Max. moment My	2.9 Nm
Max. feed force Fx Reference value effective load, horizontal Reference value effective load, vertical 23 kg Moving mass for 0 mm stroke 179 g Additional moving mass per 10 mm stroke 4.9 g Product weight 1800 g Basic weight for 0 mm stroke 41 8 Number of digital logic outputs 24 V DC 2 Nowhing range of logic input Vorting range of logic input Configurable Not galvanically isolated O-Link, Protocol version O-Link, Port class A O-Link, Process data content OUT Move in the intermediate 1 bit State Intermediate 1 bit State Intermediate 1 bit State Unit 2 bit 2 bit State Unit 2 bit	Max. moment Mz	2.9 Nm
Reference value effective load, horizontal Reference value effective load, vertical 23 kg Moving mass for 0 mm stroke 179 g Additional moving mass per 10 mm stroke 1800 g Basic weight for 0 mm stroke 1185 g Additional weight per 10 mm stroke 1185 g Additional weight per 10 mm stroke 41 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 24 V Features of logic input Configurable Not galvanically isolated O-Link, Protocol version Device V 1.1 O-Link, communication mode COM3 (230.4 kBaud) O-Link, Prot class A O-Link, Process data length OUT 2 bytes O-Link, Process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move intermediate 1 bit State In 1 bit State In 1 bit State New 1 bit State Out 1 bit	Max. radial force at drive shaft	180 N
Reference value effective load, vertical Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke 4.9 g Product weight 1800 g Basic weight for 0 mm stroke Additional weight per 10 mm stroke 1185 g Additional weight per 10 mm stroke At 1 g Number of digital logic uptusts 24 V DC 2 v Number of digital logic inputs Configurable Not galvanically isolated Not galvanically isolated OO-Link, Protocol version Oo-Link, Port class A OO-Link, Port class A OO-Link, Number of ports 1 OO-Link, Number of ports 1 OO-Link, Process data length OUT OO-Link, Process data content OUT Move in 1 bit Move in 1 bit Move intermediate 1 bit State Move 1 bit State Move 1 bit State Move 1 bit State Out 1 bit OO-Link, Service data IN 32-bit force 32-bit position 32-bit speed OO-Link, Min. cycle time 1 ms	Max. feed force Fx	450 N
Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke 4.9 g Product weight 1800 g Basic weight for 0 mm stroke 418 5 Additional weight per 10 mm stroke 41 g Number of digital logic outputs 24 V DC 2 Number of digital logic input 42 t V Features of logic input Configurable Not galvanically isolated Not-link, Protocol version Device V 1.1 O-Link, Port class A O-Link, Number of ports 1 O-Link, Process data content OUT Move in 1 bit Move int 1 bit Move intermediate 1 bit State Out 1 bit State Intermediate 1 bit State Move 1 bit State Out 1 bit State O	Reference value effective load, horizontal	60 kg
Additional moving mass per 10 mm stroke Product weight 1800 g Basic weight for 0 mm stroke 1185 g Additional weight per 10 mm stroke 41 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 24 V Working range of logic input 24 V Features of logic input Configurable Not galvanically isolated Not galvanically isolated OO-Link, Protocol version Device V 1.1 OO-Link, Port class A OO-Link, Port class A OO-Link, Portess data length OUT 2 bytes OO-Link, Process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit State Intermediate 1 bit State In 1 bit State Intermediate 1 bit State Intermediate 1 bit State Out 1	Reference value effective load, vertical	23 kg
Product weight 1800 g Basic weight for 0 mm stroke 1185 g Additional weight per 10 mm stroke 41 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 2 Working range of logic input 24 V Features of logic input Configurable Not galvanically isolated Not galvanically isolated O0-Link, Protocol version Device V 1.1 O0-Link, communication mode COM3 (230.4 kBaud) O0-Link, Port class A O0-Link, Port class A O0-Link, Process data length OUT 2 bytes O0-Link, Process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move intermediate 1 bit State In 1 bit State In 1 bit State In 1 bit State Intermediate 1 bit State Intermediate 1 bit State Intermediate 1 bit State Intermediate 1 bit State Over 1 bit Move 1 bit Gold Intermediate 1 bit State Intermediate 1 bit State Over 1 bit Move 1 bit State Intermediate 1 bit State Intermediate 1 bit State Over 1 bit Move 1 bit Gold Intermediate 1 bit State Intermediate 1 bi	Moving mass for 0 mm stroke	179 g
Basic weight for 0 mm stroke Additional weight per 10 mm stroke 2 Number of digital logic outputs 2 Working range of logic input Configurable Not galvanically isolated Oo-Link, Protocol version Oo-Link, Protocol version Oo-Link, Port class A Oo-Link, Port class A Oo-Link, Port class A Oo-Link, Process data length OUT 2 bytes Oo-Link, Process data content OUT Move in 1 bit Move out 1 bit Move out 1 bit Move out 1 bit Move intermediate 1 bit State In 1 bit State In 1 bit State In 1 bit State Intermediate 1 bit State Intermediate 1 bit State Move 1 bit State Device 1 bit State Move 1 bit State Device 1 bit State Move 1 bit State Move 1 bit State Move 1 bit State Device 1 bit State Move 1 bit State Device 1 bit State Move 1 bit S	Additional moving mass per 10 mm stroke	4.9 g
Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC Number of digital logic inputs 2 Norking range of logic input Configurable Not galvanically isolated Not galvanically isolated O-Link, Protocol version O-Link, communication mode Co-Link, communication mode Co-Link, Number of ports O-Link, Process data length OUT O-Link, Process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move intermediate 1 bit State In 1 bit State In 1 bit State Intermediate 1 bit State Move 1 bit State Move 1 bit State Move 1 bit State Move 1 bit State Intermediate 1 bit State Move 1 bit State Move 1 bit State Intermediate 1 bit State Move 1 bit State Move 1 bit State Intermediate 1 bit State Move 1 bit State Move 1 bit State Move 1 bit State Move 1 bit State Horemediate 1 bit State Move 1 bit State Dut 1 b	Product weight	1800 g
Number of digital logic outputs 24 V DC Number of digital logic input Norking range of logic input Configurable Not galvanically isolated O-Link, Protocol version O-Link, communication mode COM3 (230.4 kBaud) O-Link, Port class A O-Link, Number of ports 1 O-Link, Process data length OUT O-Link, Process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move intermediate 1 bit State In 1 bit State In 1 bit State In 1 bit State Nove 1 bit State Out 1 bit O-Link, Service data IN 32-bit force 32-bit position 32-bit speed O-Link, Min. cycle time	Basic weight for 0 mm stroke	1185 g
Number of digital logic inputs 2 Working range of logic input 24 V Features of logic input Configurable Not galvanically isolated O-Link, Protocol version Device V 1.1 O-Link, communication mode COM3 (230.4 kBaud) O-Link, Port class A O-Link, Number of ports 1 O-Link, Process data length OUT 2 bytes O-Link, Process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move intermediate 1 bit State In 1 bit State In 1 bit State In 1 bit State In 1 bit State Out 1 bit State Device 1 bit State Out 1 bit State Out 1 bit State Device 1 bit State Device 1 bit State Device 1 bit State Device 1 bit State Intermediate 1 bit State Device 1 bit State Device 1 bit State Intermediate 1 bit State Device 1 bit S	Additional weight per 10 mm stroke	41 g
Working range of logic input Features of logic input Configurable Not galvanically isolated O-Link, Protocol version Device V 1.1 O-Link, Communication mode COM3 (230.4 kBaud) O-Link, Port class A O-Link, Number of ports 1 O-Link, Process data length OUT O-Link, Process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move intermediate 1 bit State In 1 bit State In 1 bit State In 1 bit State Move 1 bit State Move 1 bit State Out 1	Number of digital logic outputs 24 V DC	2
Features of logic input Configurable Not galvanically isolated O-Link, Protocol version Device V 1.1 O-Link, Communication mode COM3 (230.4 kBaud) O-Link, Port class A O-Link, Number of ports 1 O-Link, Process data length OUT 2 bytes O-Link, Process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move intermediate 1 bit State Device 1 bit State In 1 bit State Intermediate 1 bit State Out 1 bit State	Number of digital logic inputs	2
Not galvanically isolated O-Link, Protocol version Device V 1.1 O-Link, communication mode COM3 (230.4 kBaud) O-Link, Port class A O-Link, Number of ports 1 O-Link, Process data length OUT O-Link, Process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move intermediate 1 bit O-Link, Process data content IN State Device 1 bit State In 1 bit State Intermediate 1 bit State Move 1 bit State Move 1 bit State Out 1 bit	Working range of logic input	24 V
O-Link, Communication mode O-Link, Port class A O-Link, Number of ports 1 O-Link, Process data length OUT O-Link, Process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move intermediate 1 bit State In 1 bit State In 1 bit State Intermediate 1 bit State Out 1 bit	Features of logic input	
O-Link, Port class O-Link, Number of ports 1 O-Link, Process data length OUT 2 bytes O-Link, Process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move intermediate 1 bit State Device 1 bit State In 1 bit State In 1 bit State Intermediate 1 bit State Out 1 bit	IO-Link, Protocol version	Device V 1.1
O-Link, Number of ports O-Link, Process data length OUT 2 bytes O-Link, Process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move intermediate 1 bit O-Link, Process data content IN State Device 1 bit State In 1 bit State In 1 bit State Intermediate 1 bit State Out 1 bit O-Link, Service data IN 32-bit force 32-bit position 32-bit speed O-Link, Min. cycle time 1 ms	IO-Link, communication mode	COM3 (230.4 kBaud)
O-Link, Process data length OUT O-Link, Process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move intermediate 1 bit O-Link, Process data content IN State Device 1 bit State In 1 bit State In 1 bit State Move 1 bit State Out 1 bit O-Link, Service data IN 32-bit force 32-bit position 32-bit speed O-Link, Min. cycle time 1 ms	IO-Link, Port class	A
O-Link, Process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move intermediate 1 bit O-Link, Process data content IN State Device 1 bit State In 1 bit State In 1 bit State Intermediate 1 bit State Move 1 bit State Out	IO-Link, Number of ports	1
Move out 1 bit Quit Error 1 bit Move intermediate 1 bit O-Link, Process data content IN State Device 1 bit State In 1 bit State Intermediate 1 bit State Intermediate 1 bit State Move 1 bit State Out 1 bit State Out 1 bit O-Link, Service data IN 32-bit force 32-bit position 32-bit speed	IO-Link, Process data length OUT	2 bytes
State In 1 bit State Intermediate 1 bit State Move 1 bit State Move 1 bit State Out 1 bit O-Link, Service data IN 32-bit force 32-bit position 32-bit speed O-Link, Min. cycle time 1 ms	IO-Link, Process data content OUT	Move out 1 bit Quit Error 1 bit
32-bit position 32-bit speed O-Link, Min. cycle time 1 ms	IO-Link, Process data content IN	State In 1 bit State Intermediate 1 bit State Move 1 bit
·	IO-Link, Service data IN	32-bit position
O-Link, Data storage required 0.5 KB	IO-Link, Min. cycle time	1 ms
	IO-Link, Data storage required	0.5 KB

Feature	Value
Switching logic for inputs	NPN (negative switching) PNP (positive switching)
Logic interface, connection type	Plug
Logic interface, connection technology	M12x1, A-coded according to EN 61076-2-101
Logic interface, number of pins/wires	8
Type of mounting	Via female thread With accessories
Note on materials	RoHS-compliant RoHS-compliant
Material spindle nut	Steel
Material spindle	Rolled steel