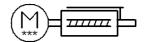
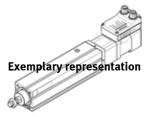
electric cylinder unit EPCS-BS-45-Part number: 8118265







Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Size	45
Stroke	25 300 mm
Stroke reserve	0 mm
Piston rod thread	M10x1,25
Reversing backlash	100 μm
Spindle diameter	10 mm
Spindle pitch	3 10 mm/U
Max. angular deflection of piston rod +/-	1 deg
Assembly position	Any
Piston-rod end	Male thread
Motor type	Stepper motor
Design structure	Electric cylinder
	With ball screw
	With integrated drive
Spindle type	Ball screw
Protection against torque/guide	with plain-bearing guide
Referencing	Fixed stop block positive
	Fixed stop block negative
	Reference switch
Rotor position sensor	Absolute single turn encoder
Rotary position encoder measuring principle	Magnetic
Temperature monitoring	Shutdown at over-temperature
	Integrated precise CMOS temperature sensor with analogue output
Additional functions	User interface
	Integrated end-position sensing
Display	LED
Ready status display	LED
Max. acceleration	0.5 5 m/s2
Max. speed	0.07 0.23 m/s
Speed "Speed press"	0.01 m/s
Repetition accuracy	±0,02 mm
Digital logic output characteristics	configurable
	Not electrically 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
Parameters configuring interface	IO-Link
	User interface
Rotor position encoder resolution	16 Bit
Permissible voltage fluctuation	+/- 15 %



Power supply, type of connection Power supply, connection technology M12x1, T-coded to EN 61076-2-111 Power supply, number of pins/wires 4 Authorisation RCM Mark KC mark CE mark (see declaration of conformity) to EU directive for EMC in accordance with EU RoHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Vibration resistance Transport application test with severity level 1 as per FN 942017- EN 60068-2-6 Shock resistance Shock test with severity level 1 in accordance with FN 942017-5 a 60068-2-27 Corrosion resistance classification CRC 0 - No corrosion stress PWIS conformity VDMA24364 zone III Cleanroom class ISO class 9 Storage temperature -2-0 60 °C Relative air humidity 0 - 90 % non-condensing Protection class IIP40 Safety class III Ambient temperature 0 50 °C Note on ambient temperature of 30 °C, the power must be reduly 2% per K.	
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IDV 2% Der K.	ed
Max. torque Mx 0 Nm	
Max. torque My 2.9 Nm	
Max. torque Mz 2.9 Nm Max. radial force at drive shaft 180 N	
Max. radial force at drive shaft Max. feed force Fx 250 450 N	
Reference value for working load, horizontal 40 60 kg	
Reference value for working load, nonzontal 40 60 kg Reference value for working load, vertical 13 23 kg	
Maintenance interval Life-time lubrication	
Moving mass with 0 mm stroke 179 g	
Additional mass factor per 10 mm of stroke 4.9 g	
Product weight 1,288 2,538 g	
Basic weight for 0 mm stroke 1,185 1,308 g	
Additional weight per 10 mm stroke 41 g	
Number of 24 V DC digital logic outputs 2	
Number of digital logic inputs 2	
Specification, logic input Based on IEC 61131-2, type 1	
Logic input working range 24 V	
Logic input characteristics configurable	
Not electrically isolated	
IO-Link, SIO mode support Yes	
IO-Link, protocol Device V 1.1	
IO-Link, communication mode COM3 (230.4 kbd)	
IO-Link, port type A	
IO-Link, number of ports 1	
IO-Link, process data width OUT 2 Byte	
IO-Link, process data content OUT Move in 1 bit	
Move out 1 bit	
Quit Error 1 bit	
Move Intermediate 1 bit	
IO-Link, process data width IN 2 Byte	
IO-Link, process data content IN State In 1 bit State Out 1 bit	
State Out 1 bit State Move 1 bit	
State Device 1 bit	
State Device 1 bit State Intermediate 1 bit	
IO-Link, Service data contents IN 32 bit Force	
32 bit force	



Feature	Value
	32 bit Speed
IO-Link, minimum cycle time	1 ms
IO-Link, data memory required	0.5 Kilobyte
Max. line length	15 m outputs
	15 m inputs
	20 m with IO-Link operation
Switching logic, outputs	NPN (negative switching)
	PNP (positive-switching)
Input circuit logic	NPN (negative switching)
	PNP (positive-switching)
Logic interface, connection type	Plug
Logic interface, connection technology	M12x1, A-coded in accordance with EN 61076-2-101
Logic interface, number of poles/wires	8
Logic interface, connection pattern	00992264
Mounting type	with internal (female) thread
	with accessories
Materials note	Conforms to RoHS
Material housing	Smooth-anodised wrought aluminium alloy
Material piston rod	High alloy steel, non-corrosive
Material spindle nut	Steel
Material spindle	Roller bearing steel