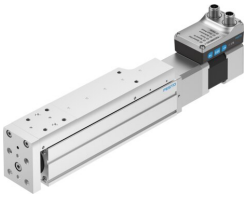
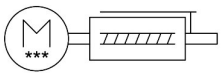
Mini slide unit
EGSS-BS-KF-45-125-10P-ST-M-H1-PLK-AA

Part number: 8083818





Data sheet

Feature	Value
Working stroke	125 mm
Size	45
Stroke reserve	0 mm
Spindle diameter	10 mm
Spindle pitch	10 mm/U
Mounting position	optional
Guide	Recirculating ball bearing guide
Design	Electric mini slide With ball screw drive With integrated drive
Spindle type	Ball screw drive
Position detection	Motor encoder Via proximity switch
Rotor position sensor	Absolute single-turn encoder
Rotor position sensor, encoder measuring principle	Magnetic
Additional functions	User interface Integrated end-position sensing
Display	LED
Max. acceleration	5 m/s²
Max. speed	0.25 m/s
Repetition accuracy	±0.015 mm
Features of digital logic outputs	Configurable Not galvanically isolated
Duty cycle	100%
Insulation protection class	B
Max. current digital logic outputs	100 mA
Max. current consumption	3 A
Max. current consumption, logic	300 mA
Nominal voltage DC	24 V
Nominal current	3 A
Parameterisation interface	IO-Link User interface
Permissible voltage fluctuations	+/- 15%

Feature	Value
Power supply, connection type	Plugs
power supply, connection system	M12x1, T-coded according to EN 61076-2-111
Power supply, number of pins/wires	4
Approval	RCM trademark
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
Corrosion resistance class CRC	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Storage temperature	-20 °C...60 °C
Relative air humidity	0 - 90%
Degree of protection	IP40
Ambient temperature	0 °C...50 °C
Note on ambient temperature	Power must be reduced by 2% per K at ambient temperatures above 30°C.
Max. force Fy	1314 N
Max. force Fz	1314 N
Fy at theoretical life value of 100 km (only guide consideration)	3240 N
Fz at theoretical life value of 100 km (only guide consideration)	3240 N
Max. moment Mx	8.14 Nm
Max. moment My	7.05 Nm
Max. moment Mz	7.05 Nm
Mx at theoretical life value of 100 km (only guide consideration)	20 Nm
My at theoretical life value of 100 km (only guide consideration)	17 Nm
Mz at theoretical life value of 100 km (only guide consideration)	17 Nm
Max. radial force at drive shaft	340 N
Max. feed force Fx	120 N
Reference value effective load, horizontal	6 kg
Reference value effective load, vertical	6 kg
Feed constant	10 mm/U
Reference service life	5000 km
Moving mass for 0 mm stroke	212 g
Additional moving mass per 10 mm stroke	30 g
Product weight	2024 g
Basic weight for 0 mm stroke	1238 g
Additional weight per 10 mm stroke	63 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
IO-Link, Process data content OUT	1-bit (move in) 1-bit (move out) 1-bit (quit error) 1 bit (move intermediate)
IO-Link, Process data content IN	1-bit (state device) 1 bit (intermediate state) 1-bit (state move) 1-bit (state in) 1-bit (state out)
IO-Link, Service data IN	32-bit force 32-bit position 32-bit speed
IO-Link, Data storage required	0.5 KB
Switching logic for inputs	PNP (positive switching)
Logic interface, connection type	Plug
Logic interface, connection technology	M12x1, A-coded according to EN 61076-2-101

Feature	Value
Logic interface, number of pins/wires	8
Type of mounting	Via female thread Via centring sleeve With accessories Via cylindrical pin
Note on materials	RoHS-compliant
Material guide slide	Rolled steel
Material guide rail	Rolled steel
Material spindle	Rolled steel