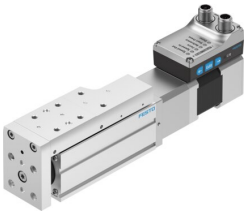
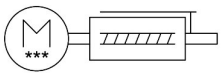
Mini slide unit
EGSS-BS-KF-45-50-10P-ST-M-H1-PLK-AA

Part number: 8083815





Data sheet

Feature	Value
Working stroke	50 mm
Size	45
Stroke reserve	0 mm
Screw diameter	10 mm
Spindle pitch	10 mm/U
Mounting position	Any
Guide	Recirculating ball bearing
Structural design	Electrical mini-slide With ball screw With integrated actuator
Spindle type	Ball screw
Position sensing	Motor encoder Via proximity switch
Rotor position sensor	Absolute single-turn encoder
Rotor position sensor 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
Characteristics of digital logic outputs	Configurable Not galvanically isolated
Duty cycle	100%
Insulation protection class	B
Max. current of digital logic outputs	100 mA
Max. current consumption	3 A
Logic max. current consumption	300 mA
DC nominal voltage	24 V
Nominal current	3 A
Parameterization interface	IO-Link® User interface
Permissible voltage fluctuations	+/-15%

Feature	Value
Power supply, type of connection	Plug
Power supply, connection technology	M12x1, T-coded as per EN 61076-2-111
Power supply, number of pins/wires	4
Certification	RCM compliance mark
CE marking (see declaration of conformity)	As per EU EMC directive As per 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	Above an ambient temperature of 30°C, the power must be reduced by 2% per K.
Max. force Fy	1314 N
Max. force Fz	1314 N
Fy with theoretical service life of 100 km (from a guide perspective only)	3240 N
Fz with theoretical service life of 100 km (from a guide perspective only)	3240 N
Max. torque Mx	8.14 Nm
Max. torque My	7.05 Nm
Max. torque Mz	7.05 Nm
Mx with theoretical service life of 100 km (from a guide perspective only)	20 Nm
My with theoretical service life of 100 km (from a guide perspective only)	17 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	17 Nm
Max. radial force on actuator shaft	340 N
Max. feed force Fx	120 N
Guide value for payload, horizontal	6 kg
Guide value for payload, vertical	6 kg
Feed constant	10 mm/U
Reference service life	5000 km
Moving mass at 0 mm stroke	212 g
Additional moving mass per 10 mm stroke	30 g
Product weight	1552 g
Basic weight with 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
Work range of logic input	24 V
Characteristics 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 (State Intermediate) 1 bit (state move) 1 bit (state intermediate) 1 bit (state out)
IO-Link®, service data contents IN	32-bit force 32-bit position 32-bit speed
IO-Link®, data memory required	0.5 KB
Input switching logic	PNP (positive switching)

Feature	Value
Logic interface, connection type	Plug
Logic interface, connection technology	M12x1, A-coded as per EN 61076-2-101
Logic interface, number of poles/wires	8
Type of mounting	With internal thread With centering sleeve With accessories With cylindrical pin
Note on materials	RoHS compliant
Slide carriage material	Bearing steel
Guide rail material	Bearing steel
Spindle material	Bearing steel