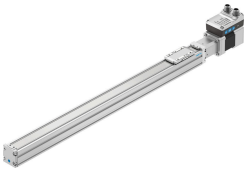
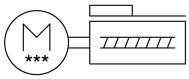
Spindle axis unit ELGS-BS-KF-32-400-8P-ST-M-H1-PLK-AA

Part number: 8083427





Data sheet

Feature	Value
Working stroke	400 mm
Size	32
Stroke reserve	0 mm
Spindle diameter	8 mm
Spindle pitch	8 mm/U
Mounting position	optional
Guide	Recirculating ball bearing guide
Design	Electromechanical linear axis With ball screw 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
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	5 m/s²
Max. speed	0.18 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
Nominal voltage DC	24 V
Nominal current	3 A
Parameterisation interface	IO-Link User interface

Feature	Value
Permissible voltage fluctuations	+/- 15%
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
Vibration resistance	Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6
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.
2nd moment of area Iy	38000 mm⁴
2nd moment of area Iz	45000 mm⁴
Max. force Fy	150 N
Max. force Fz	300 N
Fy at theoretical life value of 100 km (only guide consideration)	552 N
Fz at theoretical life value of 100 km (only guide consideration)	1104 N
Max. moment Mx	1.3 Nm
Max. moment My	1.1 Nm
Max. moment Mz	1.1 Nm
Mx at theoretical life value of 100 km (only guide consideration)	5 Nm
My at theoretical life value of 100 km (only guide consideration)	4 Nm
Mz at theoretical life value of 100 km (only guide consideration)	4 Nm
Max. feed force Fx	40 N
Reference value effective load, horizontal	2 kg
Reference value effective load, vertical	2 kg
Torsional mass moment of inertia It	1700 mm⁴
Feed constant	8 mm/U
Moving mass	83.4 g
Product weight	1609 g
Dynamic deflection (moving load)	0.05% of the axis length, max. 0.5 mm
Static deflection (load in standstill)	0.1% of the axis length
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)
IO-Link, Process data content IN	1-bit (state device) 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
Material end cap	Painted die cast aluminium
Material profile	Anodised wrought aluminium alloy
Note on materials	RoHS-compliant
Material cover tape	High-alloy stainless steel
Material drive cover	Painted die cast aluminium
Material guide slide	Steel
Material guide rail	Steel
Material spindle nut	Steel
Material spindle	Steel