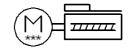
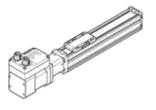
spindle axis unit ELGS-BS-KF-32-800-8P-ST-M-H1-PLK-AA Part number: 8083430







Data sheet

Feature	Value
Working stroke	800 mm
Size	32
Stroke reserve	0 mm
Spindle diameter	8 mm
Spindle pitch	8 mm/U
Assembly position	Any
Guide	Recirculating ball bearing guide
Design structure	Electromechanical linear axis
Design structure	with recirculating ball bearing spindle
	With integrated drive
Matartuna	Stepper motor
Motor type Spindle type	Ball screw
Position detection	Motor encoder
	For proximity sensor
Referencing	Fixed stop block positive
	Fixed stop block negative
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	5 m/s2
Max. speed	0.18 m/s
Repetition accuracy	±0,015 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
Nominal voltage DC	24 V
Nominal current	3 A
Parameters configuring interface	IO-Link
admeters configuring interface	User interface
Rotor position encoder resolution	16 Bit
Permissible voltage fluctuation	+/- 15 %
Power supply, type of connection	+/- 15 % Plug
Power supply, type of connection Power supply, connection technology	
	M12x1, T-coded to EN 61076-2-111
Power supply, number of pins/wires	DCM Marili
Authorisation	RCM Mark
KC mark CE mark (see declaration of conformity)	KC-EMV
	to EU directive for EMC
	in accordance with EU RoHS directive



Feature	Value	
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 942017-4 and EN 60068-2-6	
Shock resistance	Shock test with severity level 1 in accordance with FN 942017-5 and EN 60068-2-27	
PWIS conformity	VDMA24364 zone III	
Storage temperature	-20 60 °C	
Relative air humidity	0 - 90 %	
Protection class	IP40	
Safety class	III	
Ambient temperature	0 50 °C	
Note on ambient temperature	Above an ambient temperature of 30 °C, the power must be reduced by 2% per K.	
Area moment of inertia 2nd degree ly	38E+03 mm4	
Area moment of inertia 2nd degree Iz	45E+03 mm4	
Max. force Fy	150 N	
Max. force Fz	300 N	
Fy with theoretical service life of 100 km (from a guide perspective only)	552 N	
Fz with theoretical service life of 100 km (from a guide perspective only)	1,104 N	
Max. torque Mx	1.3 Nm	
Max. torque My	1.1 Nm	
Max. torque Mz	1.1 Nm	
Mx with theoretical service life of 100 km (from a guide perspective only	5 Nm	
My with theoretical service life of 100 km (from a guide perspective only)	4 Nm	
Mz with theoretical service life of 100 km (from a guide perspective only)	4 Nm	
Max. feed force Fx	40 N	
Reference value for working load, horizontal Reference value for working load, vertical	2 kg	
Torsional mass moment of inertia It	2 kg 1.7E+03 mm4	
Feed constant	8 mm/U	
Moving mass	83.4 g	
Product weight	2,329 g	
Dynamic deflection (load moved)	0.05% of the axis length, max. 0.5 mm	
Static deflection (load at standstill)	0.1% of the axis length	
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	
IO-Link, SIO mode support	Yes	
Logic input characteristics	configurable	
	Not electrically isolated	
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	1 bit (Move in)	
	1 bit (Move out)	
IO Link process data width IN	1 bit (Quit Error)	
IO-Link, process data width IN IO-Link, process data content IN	2 Byte 1 bit (State Device)	
וט-בוווג, פוטנפסט ממנמ נטוונפווג ווא	1 bit (State Move)	
	1 bit (State in)	
	1 bit (State out)	
IO-Link, Service data contents IN	32 bit Force	
- S Lining S Living data contents in	32 bit Position	
	32 bit Speed	
IO-Link, minimum cycle time	1 ms	
IO-Link, data memory required	0.5 Kilobyte	
Max. line length	15 m outputs	



Feature	Value
	15 m inputs
	20 m with IO-Link operation
Switching logic, outputs	PNP (positive-switching)
Input circuit logic	PNP (positive-switching)
IO-Link, connection technology	Plug
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
Material of end caps	Die-cast aluminium, painted
Material of profile	Anodised wrought aluminium alloy
Materials note	Conforms to RoHS
Material cover tape	High alloy steel, non-corrosive
Material drive cover	Die-cast aluminium, painted
Material guide slide	Steel
Material guide rail	Steel
Material slide	Aluminium die cast
Material spindle nut	Steel
Material spindle	Steel