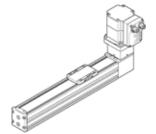
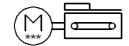
## toothed belt axis unit ELGS-TB-KF-45-1200-ST-M-H1-PLK-AA Part number: 8083671







## **Data sheet**

pall bearing guide nical linear axis pelt d drive r r sensor ck positive ck negative
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ck positive
CK negative
e turn encoder
over-temperature
cise CMOS temperature sensor with analogue output
d-position sensing
2 position sensing
y isolated
, isolatea
ed to EN 61076-2-111
e for EMC
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 $^{\circ}$ C, the power must be reduced by 2% per K.
Area moment of inertia 2nd degree ly	140E+03 mm4
Area moment of inertia 2nd degree Iz	170E+03 mm4
Max. force Fy	300 N
Max. force Fz	600 N
Max. torque Mx	5.5 Nm
Max. torque My	4.7 Nm
Max. torque Mz	4.7 Nm
Max. feed force Fx	75 N
Reference value for working load, horizontal	2.5 kg
Torsional mass moment of inertia It	8.5E+03 mm4
Feed constant	60 mm/U
Moving mass	169 g
Moving mass with 0 mm stroke	169 g
Slide weight	55 g
Product weight	4,550 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
IO-Link, SIO mode support Logic input characteristics	Yes configurable
Logic input characteristics	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 width oo'i	1 bit (Move in)
To Elling process data content our	1 bit (Move out)
	1 bit (Quit Error)
IO-Link, process data width IN	2 Byte
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 contents IN	32 bit Force
	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
	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



Feature	Value
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	Stainless steel strip
Material drive cover	Die-cast aluminium, painted
Material guide slide	Heat-treatment steel
Material guide rail	Heat-treatment steel
Material pulleys	High alloy steel, non-corrosive
Material slide	Aluminium die cast
Material toothed belt	Polychloroprene with glass fibres