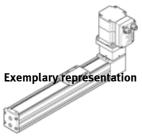
toothed belt axis unit ELGS-TB-KF-60-Part number: 8083557



Data sheet

Overall data sheet - Individual values depend upon your configuration.

Feature	Value
Effective diameter of drive pinion	24.83 mm
Working stroke	50 2,000 mm
Size	60
Stroke reserve	0 mm
Toothed-belt stretch	0.124 %
Toothed-belt pitch	3 mm
Assembly position	Horizontal
Guide	Recirculating ball bearing guide
Design structure	Electromechanical linear axis
	With toothed belt
	with integrated drive
Motor type	Stepper motor
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	6 m/s2
Max. speed	1.04 1.3 m/s
Repetition accuracy	±0,1 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	5.3 A
Nominal voltage DC	24 V
Nominal current	5.3 A
Parameters configuring interface	IO-Link
	User interface
Rotor position encoder resolution	16 Bit
Permissible voltage fluctuation	+/- 15 %
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
Authorization	RCM Mark
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Encodes:2-6Shock resistanceShock test with severity level 1 in accordance with FN 942017-5 an 60068:2-27PWIS conformityVDMA73364 zonel IIIStorage temperature-2060 °CRelative air humidity0 - 90 %Portection classIP40Safety classIIIAmbient temperature0 50 °CNote on ambient temperature0 50 °CAcce amment of inertia 2nd degree ly441E-03 mn4Area moment of inertia 2nd degree ly441E-03 mn4Area moment of inertia 2nd degree ly441E-03 mn4Max, force Fy600 NMax, force Fy1,800 NMax, torque Mx29.1 NmMax, torque My31.8 NmMax, torque My31.8 NmMax, torque My31.8 NmMax, force Fx65 NReference value for working load, horizontal4 kgTorsional mass moment of inertia 1t29.8E+03 mm4Moving mass with 0 rm stroke428 gSlide weight139 gProduct weight3.91511,555 gBask weight pr 0 mm stroke2,955 gAdditional weight pr 0 mm stroke24 kgOutling input UD20 dottal 20.00 Mit of 10.00 Mit of 10.0	Feature	Value
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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) 1 bit (Quit Error) IO-Link, process data content IN 2 Byte IO-Link, process data content IN 1 bit (State Device) 1 bit (State in) 1 bit (State out)	IO-Link, port type	A
IO-Link, process data width OUT 2 Byte IO-Link, process data content OUT 1 bit (Move in) 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) 1 bit (State out)		1
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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) 1 bit (State out)		
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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) 1 bit (State out)		
IO-Link, process data content IN 1 bit (State Device) 1 bit (State Move) 1 bit (State in) 1 bit (State out)	IO-Link, process data width IN	
1 bit (State Move) 1 bit (State in) 1 bit (State out)		1 bit (State Device)
1 bit (State in) 1 bit (State out)		
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, minimum cycle time	
IO-Link, data memory required 0.5 Kilobyte		
Max. line length 15 m outputs		
15 m inputs	Max. the tength	
20 m with IO-Link operation		

FESTO

Feature	Value
Switching logic, outputs	NPN (negative switching)
	PNP (positive-switching)
Input circuit logic	NPN (negative switching)
	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	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	Aluminum die cast
Material toothed belt	Polychloroprene with glass fibers