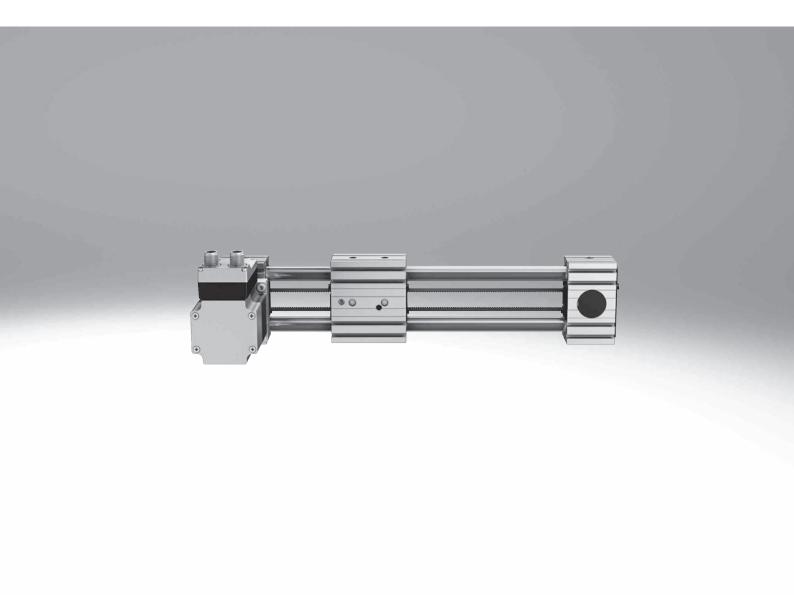
Toothed belt axis units ELGE







Key features

At a glance

Plug and work with the Simplified Motion Series



The simplicity of pneumatics is now combined for the first time with the advantages of electric automation thanks to the Simplified Motion Series. These integrated drives are the perfect solution for all users who are looking for an electric alternative for very simple movement and positioning tasks between two mechanical end positions, but don't want the commissioning process for traditional electric drive systems that can often be quite complex.

There is no need for any software since operation is simply based on the "plug and work" principle. Digital I/O (DIO) and IO-Link are always automatically included – a product with two types of control as standard.

Integrated

The integrated electronics in the drive are at the heart of the Simplified Motion Series.

Easy

For commissioning, simply set all relevant parameters directly on the drive:

- · Speed and force
- Reference end position and cushioning
- · Manual operation

Standardised

Electrical connection via M12 plug design

- Power (4-pin): power supply for the motor
- Logic (8-pin): control signal, sensor signal and power for the integrated electronics

Connected

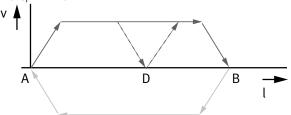
IO-Link

Use of extended functions possible via IO-Link:

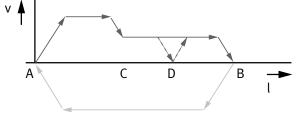
- Remote configuration of motion parameters
- Copy and backup function for transferring parameters
- Read function for extended process parameters
- Freely definable intermediate position

The functions of the Simplified Motion Series

Basic profile for movement between two end positions: with speed control



Extended motion profile for simplified press-fitting and clamping functions: with speed and force control



- These drives are designed for simple movements between two end positions.
- Proximity switches are required in order to implement any intermediate positions.
- With the intermediate position that can be freely configured via IO-Link, movements can be stopped at a freely defined point between the end positions, without the need for proximity switches or external stops

Key features

At a glance



- · Without external servo drive: all the necessary electronic components are combined in the integrated drive
- Two control options integrated as standard: digital I/O and IO-Link
- Complete solution for simple movements between mechanical end positions
- Simplified commissioning: all parameters can be manually set directly on the drive
- · No special expertise required for commissioning
- End-position feedback similar to that of a conventional proximity switch is integrated as standard
- Choice of motor mounting position on four sides
- · Cost-optimised design for tasks that require simpler yet highly cost-efficient solutions with a service life of 5000 km

The products in the Simplified Motion Series

Electric cylinder unit EPCE Electric cylinder unit EPCS

Electric cylinder unit with parallel motor mounting EPCS



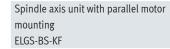
Mini slide unit EGSS-BS-KF



Mini slide unit with parallel motor mounting EGSS-BS-KF



Spindle axis unit ELGS-BS-KF





Toothed belt axis unit ELGS-TB-KF



Toothed belt axis unit ELGE



Rotary drive unit ERMS









Modular and flexible with motor, motor mounting kit and servo drive

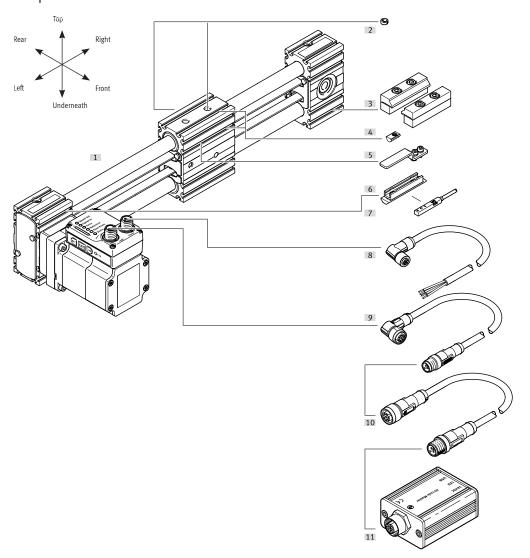
This product is also available within the Optimised Motion Series as toothed belt axis ELGR-TB:



Toothed belt axes for tasks that require simpler yet highly cost-efficient solutions in cost-optimised design with a long service life. Ideal for pick & place tasks and for transporting small loads of less than 15 kg.

- 1 driven slide, freely movable slides can be added as an option
- Extended guide, additional mounting options
- Free choice of flexible motor mounting on 4 sides
- Guide variants: recirculating ball bearing guide for moderate loads or plain-bearing guide for low loads
- Modular: individual combinations with motor, motor mounting kit and servo drive

Peripherals overview



Acces	sories		
	Type/order code	Description	→ Page/Internet
[1]	Toothed belt axis unit	Electric drive	5
	ELGE		
[2]	Centring sleeve	For centring loads and attachments on the slide	21
	ZBH	2 centring sleeves included in the scope of delivery of the axis	
[3]	Profile mounting	For mounting the axis on the bearing cap	20
	MUE		
[4]	Slot nut	For mounting attachments	21
	NST		
[5]	Switch lug ¹⁾	For sensing the slide position	20
	EAPM-L4-SLS		
[6]	Sensor bracket ¹⁾	Adapter for mounting the inductive proximity switches on the axis	20
	EAPM-L4-SHS		
[7]	Proximity switch, T-slot ¹⁾	Inductive proximity switch, for T-slot	21
	SIES-8M	• 1 switch lug and 1 sensor bracket are included in the scope of delivery with the order code SA, SB	
[8]	Supply cable	For connecting load and logic supply	22
	NEBL-T12		
[9]	Connecting cable	For connection to a controller	22
	NEBC-M12		
[10]	Adapter	Connection between the motor and the IO-Link master	22
	NEFC-M12G8		
[11]	IO-Link master USB	For straightforward use of the mini slide unit via IO-Link	22
	CDSU-1		

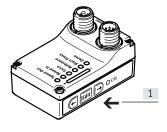
¹⁾ Proximity switches are optional and only required in order to sense any intermediate positions.

NEW Toothed belt axis units ELGE

Peripherals overview

Motor attachment variants [AT] Top [AD] Underneath [AL] Left [AR] Right

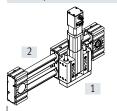
Control elements

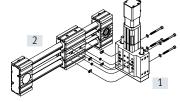


[1] Pushbutton actuators for parameterisation and control

Possible combinations with Festo drives

Electric cylinder EPCO on toothed belt axis unit ELGE





Size		Accessories			
[1] EPCO	[2] ELGE	Slot nut	Centring sleeve	Screw	Washer
16	35	NST-3-M3 (x4)	ZBH-7 (x2)	M3x10 (x4)	-

Type codes

001	Series
ELGE	Gantry axis
002	Drive system
ТВ	Toothed belt
003	Guide
	Recirculating ball bearing guide
004	Size
35	35
005	Stroke [mm]
50	50
100	100
150	150
200	200
250	250
300	300
350	350
400	400
450	450
500	500
550	550
600	600
650	650
700	700
750	750
800	800
006	Stroke reserve
0H	None
007	Motor type
ST	Stepper motor ST
008	Controller
М	Integrated
009	Control panel
H1	Integrated

010	Bus protocol/activation	
PLK	PNP and IO-Link®	
NLK	NPN and IO-Link®	
011	End-position sensing	
AA	With integrated end-position sensing	
012	Cable outlet direction	
AT	Тор	
AD	Underneath	
AL	Left	
AR	Right	
013	Motor position	
FR	Front right	
FL	Front left	
RR	Rear right	
RL	Rear left	
014	Profile mounting	
	None	
MA	1 2 units	
015	Proximity sensor, inductive, slot 8, N/O contact, cable 7.5 m	
	Without	
SA	1 6 units	
016	Proximity sensor, inductive, slot 8, N/C contact, cable 7.5 m	
	Without	
SB	1 6 units	
017	Slot nut for mounting slot	
	Without	
NM	1 99 units	
018	Electrical accessories	
	None	
L1	Adapter for operation as IO-Link® device	



- **Ø** - Size 35

> Stroke length 50 ... 800 mm



General technical data		
Size		35
Design		Electromechanical axis with toothed belt and integrated drive
Motor type		Stepper motor
Guide		Recirculating ball bearing guide
Mounting position		Horizontal
Working stroke	[mm]	50 800
Stroke reserve	[mm]	0
Additional functions		Built-in end-position sensing
		User interface
Display		LED
Homing		Positive fixed stop block
		Negative fixed stop block
Type of mounting		With female thread
		With accessories
		With centring pin, centring sleeve
Max. cable length		
Inputs/outputs	[m]	15
IO-Link operation	[m]	20

Mechanical data		
Size		35
Max. payload	[kg]	2.8
Max. feed force F _x	[N]	50
Speed ¹⁾	[m/s]	1.2
Speed "Speed Press" ²⁾	[m/s]	0.024
Max. acceleration ²⁾	[m/s ²]	8.5
Repetition accuracy	[mm]	±0.1
Position sensing		Via proximity switch
		Via IO-Link

¹⁾ It is not possible to reach the maximum speed of 1.2 m/s with strokes < 250 mm. Adjustable in increments of 10%
2) Unchangeable parameter

Toothed belt		
Size		35
Pitch	[mm]	2
Elongation ¹⁾	[%]	0.094
Effective diameter	[mm]	18.46
Feed constant	[mm/rev]	58

1) At max. feed force

Electrical data		
Size		35
Motor		
Nominal voltage DC	[V]	24 (±15%)
Nominal current	[A]	5.3
Max. current consumption (load)	[A]	5.3
Max. current consumption (logic)	[mA]	300
Encoder		
Rotor position sensor		Absolute encoder, single turn
Rotor position sensor measuring principle		Magnetic
Rotor position encoder resolution	[bit]	16

nterfaces				
Size		35		
Parameterisation interface				
IO-Link		Yes		
User interface		Yes		
Digital inputs				
Number		2		
Switching logic		PNP		
		NPN		
Characteristics		Not galvanically isolated		
		Configurable		
Specification		Based on IEC 61131-2, type 1		
Operating range	[V]	24		
Digital outputs				
Number		2		
Switching logic		PNP		
		NPN		
Rotor position sensor		Absolute encoder, single turn		
Characteristics		Not galvanically isolated		
		Configurable		
Max. current	[mA]	100		

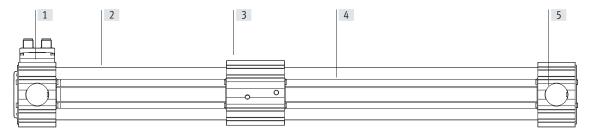
Technical data — IO-Link		
Size		35
SIO mode support		Yes
Communication mode		COM3 (230.4 kBd)
Connection technology		Plug
Port class		A
No. of ports		
Process data width OUT	[byte]	2
Process data content OUT	[bit]	1 (Move in)
	[bit]	1 (Move out)
	[bit]	1 (Move Intermediate)
	[bit]	1 (Quit Error)
Process data width IN	[byte]	2
Process data content IN	[bit]	1 (State Device)
	[bit]	1 (State Move)
	[bit]	1 (State in)
	[bit]	1 (State out)
	[bit]	1 (State Intermediate)
Service data content IN	[bit]	32 (Force)
	[bit]	32 (Position)
	[bit]	32 (Speed)
Minimum cycle time	[ms]	
Data memory required	[kilobyte]	0.5
Protocol version		Device V 1.1

Operating and environmental conditions				
Size		35		
Insulation class		В		
Ambient temperature	[°C]	0+50		
Storage temperature	[°C]	-20 +60		
Note on ambient temperature		Above an ambient temperature of 30°C, the power must be reduced by 2% per K		
Temperature monitoring		Switch-off for excessive temperature		
		Integrated precise CMOS temperature sensor with analogue output		
Relative humidity	[%]	0 90		
Protection class				
Degree of protection		IP20		
Duty cycle	[%]	100		
CE marking (see declaration of conformity)		To EU EMC Directive for EMCS-ST → festo.com/sp		
		To EU RoHS Directive		
UKCA marking (see declaration of conformity)		To UK instructions for EMC		
		To UK RoHS instructions		
KC mark		KCEMC		
Certification		RCM		
Vibration resistance		Transport application test with severity level 1 to FN 942017-4 and EN 61800-2 and EN 61800-5-1		
Shock resistance		Shock test with severity level 1 to FN 942017-5 and EN 61800-2		
Maintenance interval		Lifetime lubrication		

Weight		
Size		35
Basic weight at 0 mm stroke	[g]	2490
Additional weight per 10 mm stroke	[g]	25
Additional weight of moving mass	[g]	0.31
per 10 mm stroke		

Materials

Sectional view



Axis		
[1]	Bearing cap, profile	Anodised wrought aluminium alloy
[2]	Guide rods	Hardened and hard-chromium plated tempered steel
[3]	Slide, profile	Anodised wrought aluminium alloy
[4]	Toothed belt	Polychloroprene with glass cord and nylon coating
[5]	Belt pulley	High-alloy stainless steel
	PWIS conformity	VDMA24364 zone III
	Note on materials	RoHS-compliant

Pin allocation

Power supply

Plug

M12x1, 4-pin, T-coded to EN 61076-2-111



Pin	Function	
1	Power voltage supply (24 V DC)	
2	Reference potential, power voltage supply (GND)	
3	Reserved, do not connect	
4	Functional earth (FE)	

Logic interface

Plug

M12x1, 8-pin, A-coded to EN 61076-2-101

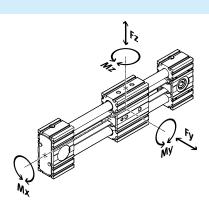


When used wit	When used with digital I/O								
Pin	Function								
1	Logic voltage supply (24 V DC)								
2 Digital output 1 (State "In")									
3	Digital output 2 (State "Out")								
4	Reference potential, logic voltage supply (GND)								
5	Digital input 1 (Move "In")								
6	Digital input 2 (Move "Out")								
7	Reserved, do not connect								
8	Reference potential, logic voltage supply (GND)								

When used wit	When used with IO-Link								
Pin	Function								
1	L+ IO-Link power supply (24 V DC)								
2	2 Reserved, do not connect								
3 C/Q communication with the IO-Link master									
4	L – Reference potential, IO-Link power supply (0 V)								
5	Reserved, do not connect								
6	Reserved, do not connect								
7	Reserved, do not connect								
8	L – Reference potential, IO-Link power supply (0 V)								

Load values

The indicated forces and torques refer to the centre of the guide. The point of application of force is the point where the centre of the guide and the longitudinal centre of the slide intersect. These values must not be exceeded during dynamic operation. Special attention must be paid to the deceleration phase.



Max. permissible forces and torques for the guide calculation, for a service life of 5000 km									
Size		35							
Fy _{max} .	[N]	50							
Fz _{max} .	[N]	50							
Mx _{max} .	[Nm]	2.5							
My _{max} .	[Nm]	8							
Mz _{max} .	[Nm]	8							



- Note

For a guide system to have a service life of 5000 km, the load comparison factor must have a value of $fv \le 1$, based on the maximum permissible forces and torques for a service life of 5000 km.

This formula can be used to calculate a guide value.

The engineering software "Electric Motion Sizing" is available

for more precise calculations \rightarrow www.festo.com

If the axis is subjected to two or more of the indicated forces and torques simultaneously, the following equation must be satisfied in addition to the indicated maximum loads:

Calculating the load comparison factor:

$$f_v = \frac{\left|F_{y1}\right|}{F_{y2}} + \frac{\left|F_{z1}\right|}{F_{z2}} + \frac{\left|M_{x1}\right|}{M_{x2}} + \frac{\left|M_{y1}\right|}{M_{y2}} + \frac{\left|M_{z1}\right|}{M_{z2}} \leq 1$$

 $F_1/M_1 = dynamic value$

 $F_2/M_2 = maximum value$

NEW Toothed belt axis units ELGE

Datasheet

Calculating the service life

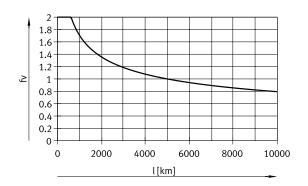
The service life of the guide depends on the load. To be able to make a statement as to the service life of the guide, the graph below plots the load comparison factor fv against the service life.

These values are only theoretical. You must consult your local Festo contact for a load comparison factor fv greater than 1.

Load comparison factor fv as a function of service life l

Example:

A user wants to move an x kg load. Using the formula (→ page 4) gives a value of 1.5 for the load comparison factor fv. According to the graph, the guide would have a service life of approx. 1500 km. Reducing the acceleration reduces the My and Mz values. A load comparison factor fv of 1 now gives a service life of 5000 km.



Service life of the motor

The service life of the motor at nominal power is 20000 h.

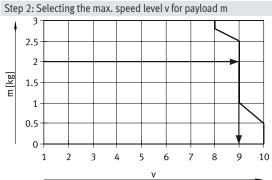
Sizing example

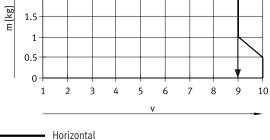
Application data:

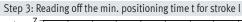
- Payload: 2 kg
- Mounting position: horizontal
- Motor mounting position: axial
- Stroke: 600 mm
- · Max. permitted positioning time: 1 s (one direction)

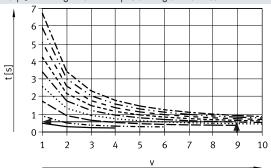
Step 1: Selecting the size from the table → page 7

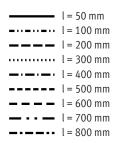
Mechanical data							
Size		35					
Max. payload	[kg]	2.8					











→ Min. positioning time for 600 mm at level 9: 0.75 s

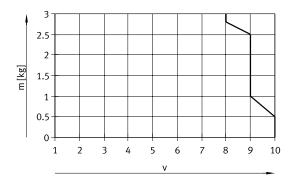
→ Max. speed level for payload: level 9

Result

The application can be implemented using ELGE-TB-35-600. A minimum positioning time (one direction) of 0.75 s is achieved. Longer positioning times can be selected at any time using a lower speed level.

Mass m as a function of speed level v

Size 35



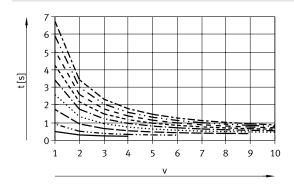
----- Horizontal

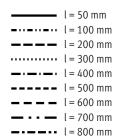
Note:

The lines represent the maximum values. The lower speed levels can be set at any time

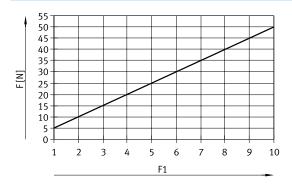
Positioning time t as a function of speed level v and stroke l

Size 35



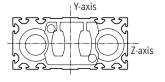


Feed force F as a function of force level F1



ELGE-TB-35

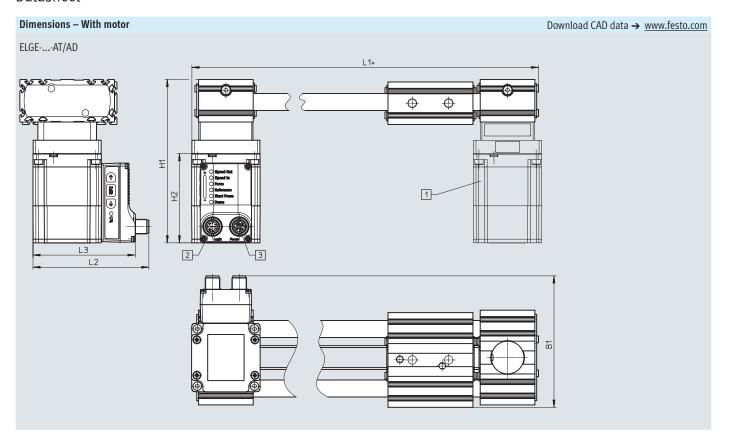
2nd moments of area

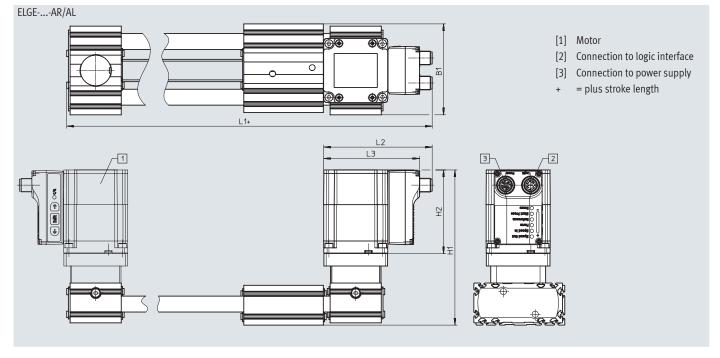


Size		35
ly	[mm ⁴]	4.19x10 ³
Iz	[mm ⁴]	3.77x10 ³

Recommended deflection limits

Adherence to a maximum deflection of 0.5 mm is recommended so as not to impair the functionality of the axes. Greater deformation can result in increased friction, greater wear and reduced service life.

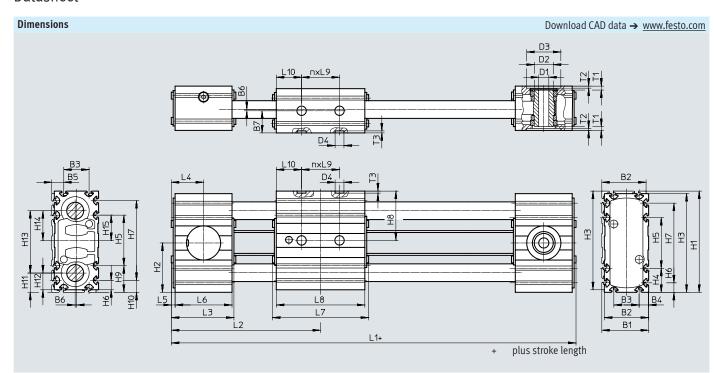




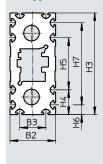
Size	B1	H1	H2	L1	L2	L3
FLCE AT FL	100.3	12/ 5	72.5	100.7	05.6	0/.2
ELGEAT-FL	108.3	134.5	73.5	180.7	95.6	84.3
ELGEAD-FR	108.3	134.5	73.5	180.7	95.6	84.3
ELGEAR-RR	80	136.5	73.5	219.8	95.6	84.3
ELGEAL-RL	80	136.5	73.5	219.8	95.6	84.3

NEW Toothed belt axis units ELGE

Datasheet







Size	B1	B2	В3	B4	B5	В6	B7	D1 Ø H7	D2 Ø	D3 Ø H7	D4 Ø H7	H1	H2	Н3	H4	Н5	H6
35	37	35	20	7.5	9.5	1	17.5	8	15	27	7	80	39	78	19	40	7.5
Size	H7	H8	Н9	H10	H11	H12	H13	H14	H15	L3	L4	L5	L6	L9	T1	T2	T3 +0.1
35	63	39	21	9.5	15.5	13.5	49	23.5	20	51	25.5	3	45	30	3.1	1.6	1.6
Size L1			L2			L7			L8			L10		n			
35		178			89			76		70)		20			1	

Ordering data

Ordering data										
Size	Stroke	Part no.	Туре							
35	100	8083931	ELGE-TB-35-100-0H-ST-M-H1-PLK-AA-AT-FR							
	200	8083932	ELGE-TB-35-200-0H-ST-M-H1-PLK-AA-AT-FR							
	300	8083933	ELGE-TB-35-300-0H-ST-M-H1-PLK-AA-AT-FR							
	400	8083934	ELGE-TB-35-400-0H-ST-M-H1-PLK-AA-AT-FR							
	500	8083935	ELGE-TB-35-500-0H-ST-M-H1-PLK-AA-AT-FR							
	600	8083936	ELGE-TB-35-600-0H-ST-M-H1-PLK-AA-AT-FR							
		35	35 100 8083931 200 8083932 300 8083933 400 8083934 500 8083935							

Toothed belt axis units ELGE

NEW

Ordering data

Ordering table					
Size	35	Conditions	Code	Enter code	
Module no.	8083929				
Series	ELGE		ELGE	ELGE	
Drive system	Toothed belt		-TB	-TB	
Guide	Recirculating ball bearing guide				
Size	35				
Stroke	[mm] 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800				
Stroke reserve	[mm] 0		-0H	-0H	
Motor type	Stepper motor ST		-ST	-ST	
Controller	Integrated		-M	-M	
Operator panel	Integrated		-H1	-H1	
Bus protocol/control	NPN and IO-Link		-NLK		
	PNP and IO-Link		-PLK		
End-position sensing	With integrated end-position sensing		-AA	-AA	
Cable outlet direction	Тор		-AT		
	Underneath		-AD		
	Left		-AL		
	Right		-AR		
Motor position	Front left		-FL		
	Front right		-FR		
	Rear left		-RL		
	Rear right		-RR		
Profile mounting	None				
	12		+MA		
Proximity switch (SIES), inductive	, slot None				
type 8, N/O contact, cable 7.5 m,	incl.				
switch lug and sensor bracket	16		SA		
Proximity switch (SIES), inductive	, slot None				
type 8, N/C contact, cable 7.5 m,	incl.				
switch lug and sensor bracket	1 6		SB		
Slot nut, mounting slot	None				
	1 99		NM		
Electrical accessories	None				
	Adapter for operation as IO device		+L1		

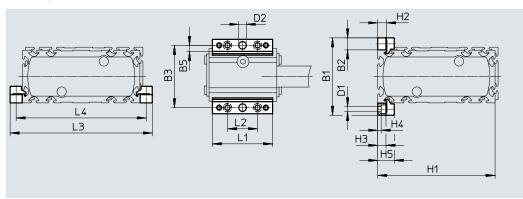
Accessories

Profile mounting MUE

(order code MA)

Material: Anodised aluminium RoHS-compliant





Dimensions and ord	Dimensions and ordering data													
For size	B1	B2	В3	B5	D1	D2	H1	H2	Н3	H4				
					Ø	Ø								
						H7								
35	51	8	43	4	3.4	5	78	6	5.5	2.3				

For size	H5	L1	L2	L3	L4	Weight [g]	Part no.	Туре
35	11	40	20	94	86	20	558042	MUE-50

Sensor bracket EAPM-...-SHS, switch lug EAPM-...-SLS

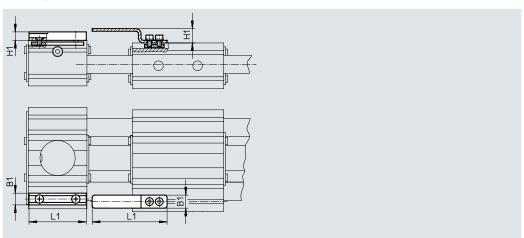
(order code SA/SB)

Material:

Switch lug: Galvanised steel Sensor bracket: Anodised wrought

aluminium alloy RoHS-compliant





Dimensions and ordering data								
For size	B1	H1	L1	Weight	Part no.	Туре		
				[g]				
Sensor bracket								
35	9	6.5	44	20	567537	EAPM-L4-SHS		
Switch lug	Cuitablus							
				T				
35	10	11	57.5	15	567538	EAPM-L4-SLS		

Accessories

Ordering data	For size	Comment	Order code	Part no.	Туре	PU ¹⁾
Slot nut NST						
	35	For mounting slot	NM	558045	NST-3-M3	1
Centring sleeve ZBH ²⁾						
6	35	For slide	-	8146544	ZBH-7-B	10

- 1) Packaging unit
- 2) 2 centring sleeves included in the scope of delivery of the axis

Ordering data – Pro	oximity switches for T-s	lot, inductive					Datasheets → Internet: sies
	Type of mounting	Electrical connection	Switching output	Cable length [m]	Order code	Part no.	Туре
N/O							
	Inserted in the slot	Cable, 3-wire	PNP	7.5	SA	551386	SIES-8M-PS-24V-K-7.5-0E
65 M	from above, flush	Plug M8x1, 3-pin	1	0.3	-	551387	SIES-8M-PS-24V-K-0.3-M8D
	with the cylinder	Cable, 3-wire	NPN	7.5	_	551396	SIES-8M-NS-24V-K-7.5-OE
	profile	Plug M8x1, 3-pin		0.3	-	551397	SIES-8M-NS-24V-K-0.3-M8D
N/C							
	Inserted in the slot	Cable, 3-wire	PNP	7.5	SB	551391	SIES-8M-PO-24V-K-7.5-OE
S	from above, flush	Plug M8x1, 3-pin	1	0.3	_	551392	SIES-8M-PO-24V-K-0.3-M8D
	with the cylinder	Cable, 3-wire	NPN	7.5	_	551401	SIES-8M-NO-24V-K-7.5-OE
	profile	Plug M8x1, 3-pin	1	0.3	-	551402	SIES-8M-NO-24V-K-0.3-M8D

Ordering data – Con	necting cables				Datasheets → Internet: nebu
	Electrical connection, left	Electrical connection, right	Cable length	Part no.	Туре
			[m]		
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541333	NEBU-M8G3-K-2.5-LE3
3			5.0	541334	NEBU-M8G3-K-5-LE3
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541338	NEBU-M8W3-K-2.5-LE3
			5.0	541341	NEBU-M8W3-K-5-LE3



Note

Proximity switches are optional and only required in order to sense any intermediate positions.

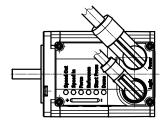
Accessories

Ordering data –	Ordering data – Supply cables Datasheets → Internet: n						
	Electrical connection, left	Electrical connection, right	Cable length	Part no.	Туре		
			[m]				
	Angled socket, M12x1, 4-pin	Cable, open end, 4-wire	2	8080778	NEBL-T12W4-E-2-N-LE4		
)		5	8080779	NEBL-T12W4-E-5-N-LE4		
			10	8080780	NEBL-T12W4-E-10-N-LE4		
			15	8080781	NEBL-T12W4-E-15-N-LE4		
	Straight socket, M12x1, 4-pin	Cable, open end, 4-wire	2	8080790	NEBL-T12G4-E-2-N-LE4		
(1)			5	8080791	NEBL-T12G4-E-5-N-LE4		
			10	8080792	NEBL-T12G4-E-10-N-LE4		
,			15	8080793	NEBL-T12G4-E-15-N-LE4		

Ordering data -	Connecting cables				Datasheets → Internet: nebc
	Electrical connection, left	Electrical connection, right	Cable length	Part no.	Туре
			[m]		
	Angled socket, M12x1, 8-pin	Cable, open end, 8-wire	2	8094476	NEBC-M12W8-E-2-N-B-LE8
			5	8094478	NEBC-M12W8-E-5-N-B-LE8
			10	8094481	NEBC-M12W8-E-10-N-B-LE8
			15	8094479	NEBC-M12W8-E-15-N-B-LE8
		Straight plug, M12x1, 8-pin	2	8080786	NEBC-M12W8-E-2-N-M12G8
			5	8080787	NEBC-M12W8-E-5-N-M12G8
			10	8080788	NEBC-M12W8-E-10-N-M12G8
			15	8080789	NEBC-M12W8-E-15-N-M12G8
	Straight socket, M12x1, 8-pin	Cable, open end, 8-wire	2	8094480	NEBC-M12G8-E-2-N-B-LE8
(STATE)			5	8094477	NEBC-M12G8-E-5-N-B-LE8
			10	8094482	NEBC-M12G8-E-10-N-B-LE8
			15	8094475	NEBC-M12G8-E-15-N-B-LE8
		Straight plug, M12x1, 8-pin	2	8080782	NEBC-M12G8-E-2-N-M12G8
			5	8080783	NEBC-M12G8-E-5-N-M12G8
The state of the s			10	8080784	NEBC-M12G8-E-10-N-M12G8
			15	8080785	NEBC-M12G8-E-15-N-M12G8



The cables are positioned at a 45° angle to the axis.



Ordering data –	ordering data – 10-Link master USB Datasheets → Internet						
	Description	Cable length [m]	Part no.	Туре			
	For using the unit with IO-Link An external power supply plug is also required (not included in the scope of delivery)			8091509	CDSU-1		
Ordering data –	Adapter				Datasheets → Internet: nefc		
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Туре		
OLD	Straight socket, M12x1, 8-pin	Straight plug, M12x1, 5-pin	0.3	8080777	NEFC-M12G8-0.3-M12G5-LK		

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