

This product is also available as a modular mechanical system Toothed belt axis ELGR-TB



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.

Integrated

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

Single

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

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

ð IO-Link

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.

Standardised

Electrical connection via

M12 plug design

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

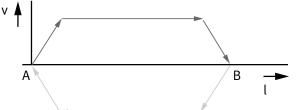
Connected

Use of extended functions possible via IO-Link:

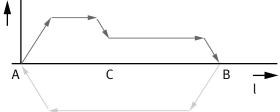
- Motion parameters can be set remotely
- Copy and backup function for transferring parameters
- Read function for extended process
 parameters

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.

The products in the Simplified Motion Series Spindle axis unit ELGS-BS-KF



Toothed belt axis unit ELGS-TB-KF

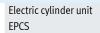


Mini slide unit



Toothed belt axis unit ELGE







Rotary drive unit ERMS



Key features



- 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 two mechanical end positions
- Protected against external influences by internal guide
- 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
- Free choice of flexible motor mounting on four sides
- Cost-optimised design for tasks that require simpler yet highly cost-efficient solutions with a service life of 5,000 km

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:

of the

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.

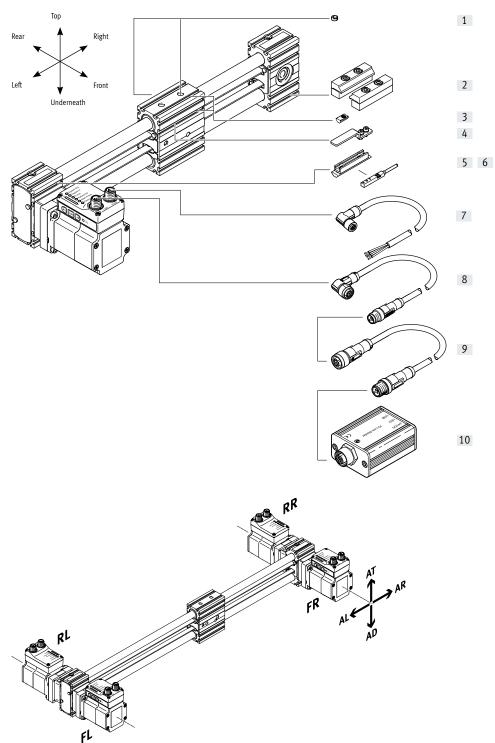
- 1 driven slide, optionally additional, freely movable slides
- Extended guide, additional mounting options
- Free choice of flexible motor mounting on 4 sides
- Guide variants: recirculating ball bearing guide for moderate loads or plain-bearing guide for low loads
- Modular: individual combinations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

Possible combinations with Festo drives

Electric cylinder EPCO on toothed b	elt axis unit ELGE				
2			2		
Size		Accessories			
[1] EPCO	[2] ELGE	Slot nut	Centring sleeve	Screw	Washer
16	35	NST-3-M3 (x4)	ZBH-7 (x2)	M3x10 (x4)	-

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Peripherals overview

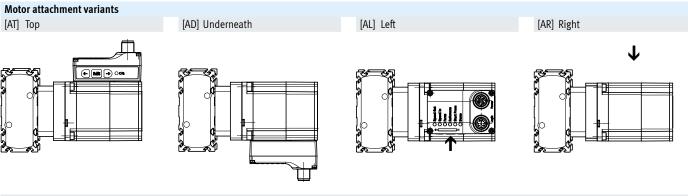


Peripherals overview

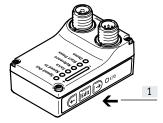
Accessories

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

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



Control elements



[1] Pushbutton actuators for parameterisation and control

Type codes

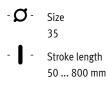
001	Series	01	10	Bus protocol/activation	
ELGE	Gantry axis	PL	LK	PNP and IO-Link®	
		NI	LK	NPN and IO-Link®	
002	Drive system	01	11	End-position sensing	
ТВ	Toothed belt				
003	Guide	A4	A	With integrated end-position sensing	
	Recirculating ball bearing guide	01	12	Cable outlet direction	
		AT	Г	Тор	
004	Size	A	D	Underneath	
35	35	AL	L	Left	
		AF	R	Right	
005	Stroke			·	
50	50	01	13	Motor position	_
100	100	FR	R	Front right	
150	150	FL	<u> </u>	Front left	
200	200	RF	R	Rear right	
250	250	RL	L	Rear left	
300	300				
350	350	01	14	Profile mounting	
400	400		.MA	12	
450	450				
500	500	01	15	Proximity sensor, inductive, slot 8, N/O contact, cable 7.5 m	
550	550		.SA	06	
600	600				
650	650	01	16	Proximity sensor, inductive, slot 8, N/C contact, cable 7.5 m	
700	700		.SB	16	
750	750				
800	800	01	17	Slot nut for mounting slot	_
006	Stroke reserve		.NM	1 99	
OH	0 mm	01	18	Electrical accessories	
	0 1111			None	
007	Motor type	L1	1	Adapter for operation as IO-Link® device	+
ST	Stepper motor ST				
008	Controller	01	19	Operating instructions	_
				With operating instructions	—
М	Integrated	DI	N	No operating instructions	
009	Control panel				
H1	Integrated				

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Toothed belt axis units ELGE

Data sheet







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		Integrated 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. line 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 press	[m/s]	0.024
Max. acceleration	[m/s ²]	8.5
Repetition accuracy	[mm]	±0.1
Position sensing		For proximity switch
		Via IO-Link

1) It is not possible to reach the maximum speed of 1.2 m/s with strokes < 250 mm.

[V]

[mA]

NPN

24

2

PNP NPN

100

Not galvanically isolated Configurable

Based on IEC 61131-2, type 1

Absolute encoder, single turn

Not galvanically isolated Configurable

Data sheet

Properties

Specification Working area

Switching logic

Properties

Max. current

Rotor position encoder

Digital outputs Number

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

Max. current consumption (logic)	[mA]	300
Encoder		
Rotor position encoder		Absolute encoder, single turn
Rotor position sensor measuring princip	ole	Magnetic
Rotor position encoder resolution	[bit]	16
Size		35
Interfaces		25
Parameterisation interface		
IO-Link		Yes
User interface		Yes
Digital inputs		
Number		2
Switching logic		PNP

Data sheet

| Technical data – IO-Link

Technical data — IO-Link		
Size		35
SIO-mode support		Yes
Communication mode		COM3 (230.4 kBaud)
Connection technology		Plug
Port class		A
Number of ports		1
Process data width OUT	[bytes]	2
Process data content OUT	[bit]	1 (Move in)
	[bit]	1 (Move out)
	[bit]	1 (Quit Error)
Process data width IN	[bytes]	2
Process data content IN	[bit]	1 (State Device)
	[bit]	1 (State Move)
	[bit]	1 (State in)
	[bit]	1 (State out)
Service data contents IN	[bit]	32 (Force)
	[bit]	32 (Position)
	[bit]	32 (Speed)
Minimum cycle time	[ms]	1
Data memory required	[Kilobyte]	0.5
Protocol version		sDevice V 1.1

Operating and environmental conditions

operating and environmental condition		
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	[%]	090
Protection class		
Degree of protection		IP20
Duty cycle	[%]	100
CE marking		To EU EMC Directive
		To EU RoHS Directive
KC mark		KC-EMV
Certification		RCM mark
Vibration resistance		Transport application check 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		Life-time lubrication

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Data sheet

Weight

Weight		
Size		35
Basic weight with 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

1	2	3	4	5
				,

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
	Note on materials	RoHS-compliant
		Contains paint-wetting impairment substances

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Data sheet

Pin allocation

Power supply

Plug

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



Pin	Function
1	Power supply (24 V DC)
2	Reference potential, power 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 with digital I/O

about the	
Pin	Function
1	Logic power supply (24 V DC)
2	Digital output 1 (State "In")
3	Digital output 2 (State "Out")
4	Reference potential, logic power supply (GND)
5	Digital input 1 (Move "In")
6	Digital input 2 (Move "Out")
7	Reserved, do not connect
8	Reference potential, logic power supply (GND)

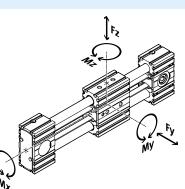
When used with IO-Link

Pin	Function
1	L+ IO-Link power supply (24 V DC)
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)

Data sheet

Characteristic 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 bearing 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 "PositioningDrives" 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:

$$f_{v} = \frac{\left|F_{y1}\right|}{F_{y2}} + \frac{\left|F_{z1}\right|}{F_{z2}} + \frac{\left|M_{x1}\right|}{M_{x2}} + \frac{\left|M_{y1}\right|}{M_{y2}} + \frac{\left|M_{z1}\right|}{M_{z2}} \le 1$$

 F_1/M_1 = dynamic value F_2/M_2 = maximum value NEW

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.

Load comparison factor fv as a function of service life l

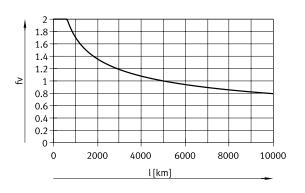
Example:

A user wants to move an x kg load. Using the formula (\rightarrow page 5) 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.

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



Data sheet

Sizing example

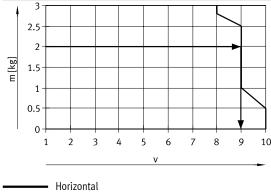
Application data: • Payload: 2 kg

- Mounting position: Horizontal
- Stroke: 600 mm
- Max. permitted positioning time: 1 s (one direction)

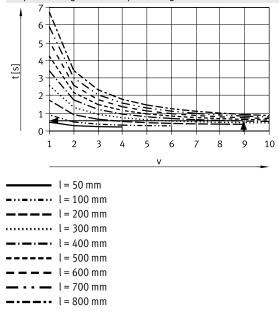
Step 1: Selection of the size from the table \rightarrow page 7

Mechanical data		
Size		35
Max. payload	[kg]	2.8

Step 2: Selection of max. speed level v for payload m



Step 3: Reading off the min. positioning time t for stroke l



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

→ Max. speed level for payload: level 9

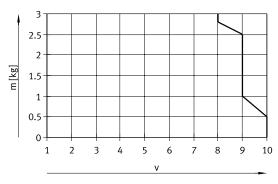
Result

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.

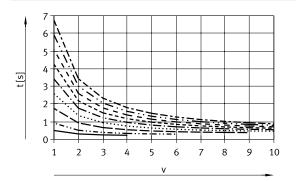
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Data sheet

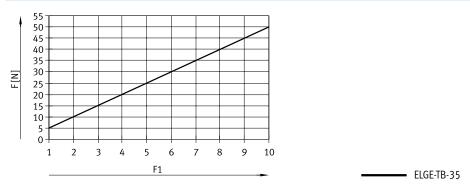




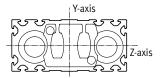
Positioning time t as a function of speed level v and stroke l Size 35



Feed force F as a function of force level F1



2nd moment of area



Size		35
ly	[mm ⁴]	4.19x10 ³
lz	[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 functional performance of the axes. Greater deformation can result in increased friction, greater wear and reduced service life.

Horizontal

Note:

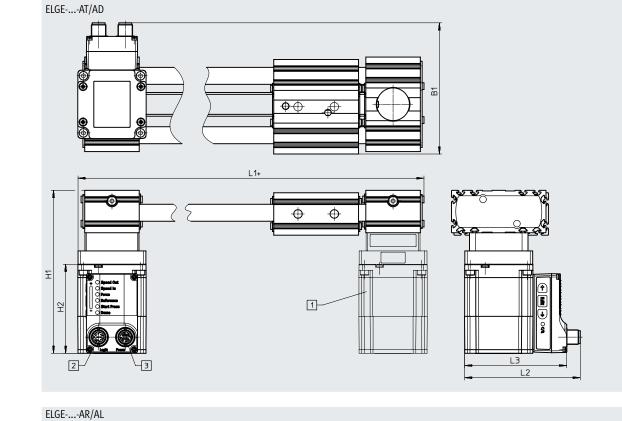
The lines represent the maximum values. The lower speed levels can be set at any time.

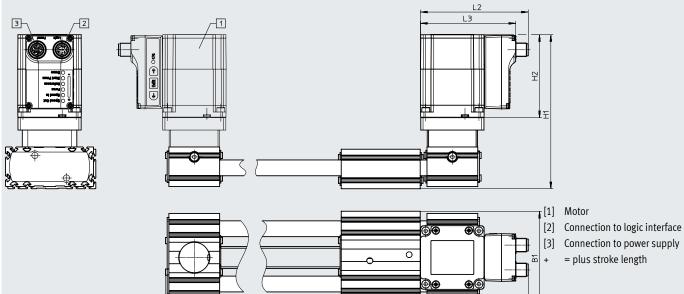
	l = 50 mm
	l = 100 mm
	l = 200 mm
	l = 300 mm
	l = 400 mm
	l = 500 mm
	l = 600 mm
<u> </u>	l = 700 mm
	l = 800 mm

Data sheet

Dimensions – With motor





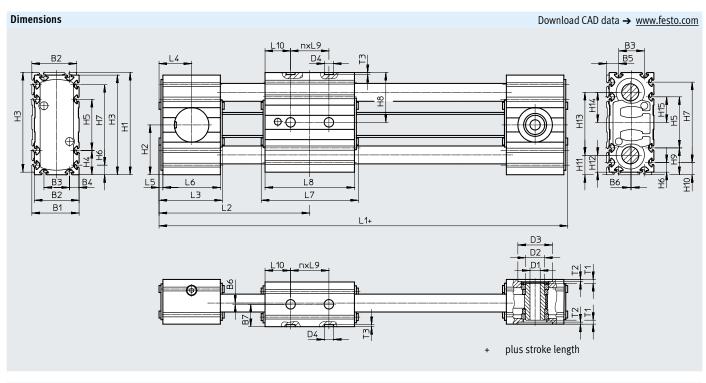


Size	B1	H1	H2	L1	L2	L3
ELGEAT-FL	108.3	134.5	73.5	180.7	95.6	84.3
ELGEAD-FR	108.3	134.5	73.5	180.7	95.6	84.3
ELGEAR-RR	80	136.5	73.5	219.8	95.6	84.3
ELGEAL-RL	80	136.5	73.5	219.8	95.6	84.3

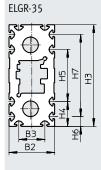
L1+

NEW

Data sheet



Profile



Size	B1	B2	B3	B4	B5	B6	B7	D1 Ø H7	D2 Ø	D3 Ø H7	D4 Ø H7	H1	H2	H3	H4	H5	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	H9	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	3		L10			n	
35		178			89			76		7()		20			1	

Ordering data

	Ordering data										
		Size	Stroke	Part no.	Туре						
ſ	<u>A</u>	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						

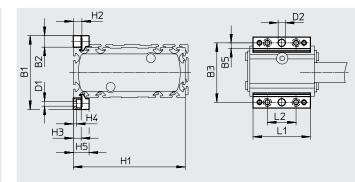
Ordering data

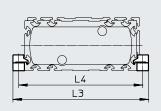
Ordering table Size	35	Conditions	Code	Enter
Size	22	Conditions	Code	code
Module no.	8083929			couc
Series	ELGE		ELGE	ELGE
Drive system	Toothed belt		-TB	-TB
Guide	Recirculating ball bearing guide			
Size	35			
Stroke [mm]	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800			
Stroke reserve [mm]	0		-0H	-0H
Motor type	Stepper motor ST		-ST	-ST
Controller	Integrated		-M	-M
Control 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			
ő	12		+MA	
Proximity switch (SIES), inductive, slot	None			
type 8, N/O contact, cable 7.5 m, in-				
cluding switch lug and sensor bracket	16		SA	
Proximity switch (SIES), inductive, slot	None			
type 8, N/C contact, cable 7.5 m, in-				
cluding switch lug and sensor bracket	16		SB	
Slot nut for mounting slot	None			
	199		NM	
Electrical accessories	None			
	Adapter for operation as IO-Link device		+L1	
Operating instructions	With operating instructions			
	Without operating instructions		DN	

Profile mounting MUE

(order code MA)

000





Dimensions and ordering data

Dimensions and ord	cring data									
For size	B1	B2	B3	B5	D1	D2	H1	H2	H3	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	Part no.	Туре	
FOI SIZE	сп			LZ	L)	L4	[g]	Fait IIO.	туре	
35	11	40		20	94	86	20	558042	MUE-50	

Sensor bracket EAPM-...-SHS Switch lug EAPM-...-SLS

(order code SA/SB)



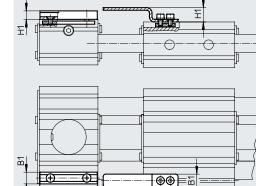
Material:

Anodised aluminium RoHS-compliant

Switch lug: Galvanised steel Sensor bracket: Anodised wrought aluminium alloy RoHS-compliant







Dimensions and ordering data

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

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Accessories

Ordering data								
	For size	Comment	Order code	Part no.	Туре	PE ¹⁾		
Slot nut NST	Slot nut NST							
	35	For mounting slot	NM	558045	NST-3-M3	1		
Centring sleeve ZBH ²⁾								
	35	For slide	-	186717	ZBH-7	10		

1) Packaging unit

2) 2 centring sleeves included in the scope of delivery of the axis

	Type of mounting	Electrical connection	Switching	Cable length	Order code	Part no.	Туре
			output	[m]			
I/O contact							
1	Insertable in the	Cable, 3-wire	PNP	7.5	SA	551386	SIES-8M-PS-24V-K-7,5-0E
S	slot from above,	Plug M8x1, 3-pin		0.3	-	551387	SIES-8M-PS-24V-K-0,3-M8D
	flush with the cylinder profile	Cable, 3-wire	NPN	7.5	-	551396	SIES-8M-NS-24V-K-7,5-OE
		Plug M8x1, 3-pin		0.3	-	551397	SIES-8M-NS-24V-K-0,3-M8D
I/C contact							
1	Insertable in the	Cable, 3-wire	PNP	7.5	SB	551391	SIES-8M-PO-24V-K-7,5-0E
ser la construction de la constr	slot from above,	Plug M8x1, 3-pin		0.3	-	551392	SIES-8M-PO-24V-K-0,3-M8D
	flush with the Cable, 3-wire	Cable, 3-wire	NPN	7.5	-	551401	SIES-8M-NO-24V-K-7,5-OE
	cylinder profile	Plug M8x1, 3-pin		0.3	-	551402	SIES-8M-NO-24V-K-0,3-M8D

0	Ordering data – Connecting cables Data sheets → Internet: nebu						
		Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Туре	
		Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541333	NEBU-M8G3-K-2.5-LE3	
				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	
0				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 – Supply cables

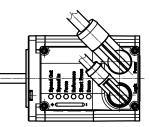
Ordering data –	Ordering data – Supply cables Data sheets → Internet: nebl						
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Туре		
	-		[III]				
	Angled socket, M12x1, 4-pin	Cable, open end, 4-wire	2	8080778	NEBL-T12W4-E-2-N-LE4		
			5	8080779 8080780	NEBL-T12W4-E-5-N-LE4		
			10		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		
			5 8080791	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

Ordering data –	Ordering data – Connecting cables Data sheets → Internet: nebc							
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Туре			
	Angled socket, M12x1, 8-pin	Cable, open end, 8-wire	2	8094476	NEBC-M12W8-E-2-N-B-LE8			
St al			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			
Contraction of the second			5	8080787	NEBC-M12W8-E-5-N-M12G8			
and and a second second			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 20			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			
	St	Straight plug, M12x1, 8-pin	2	8080782	NEBC-M12G8-E-2-N-M12G8			
State -			5	8080783	NEBC-M12G8-E-5-N-M12G8			
all			10	8080784	NEBC-M12G8-E-10-N-M12G8			
			15	8080785	NEBC-M12G8-E-15-N-M12G8			

-- Note

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



Orde	Ordering data – IO-Link master USB					
		Description	Cable length	Part no.	Туре	
			[m]			
		 For using the unit with IO-Link An external power supply plug is additionally required (not in scope of delivery) 	0.3	8091509	CDSU-1	

Orde	Ordering data – Adapter						
		Electrical connection, left	Electrical connection, right	Cable length	Part no.	Туре	
				[m]			
STR.	O LED TO	Straight socket, M12x1, 8-pin	Straight plug, M12x1, 5-pin	0.3	8080777	NEFC-M12G8-0.3-M12G5-LK	