



Key features

At a glance

The rotary module ERMB facilitates unlimited and flexible rotation angles. The output interface is the same as on the semi-rotary drive DRQD. The motor's power is transmitted to the output pinion by means of a circulating toothed belt with a specific transmission ratio. The drive and output pinions run on separate bearings. The toothed belt is pretensioned at the factory by means of an eccentric tensioning roller. Advantages:

 Stable arrangement of the output shaft bearings

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- Pretensioned toothed belt means low backlash
- Compact design

The technology in detail

- 1 Interface with the motor, via axial kit
- 2 Mounting interface
- 3 Mounting for proximity sensor SIEN in the retaining ring
- Gutput interface:
 Same as on the semi-rotary drive
 DRQD (with larger through-hole)



The sensing kit facilitates monitoring of the angle of rotation using adjustable cams. It can also be used for reference checking.

- 1 Trip cam support
- 2 Proximity sensor SIEN
- 3 Sensor bracket
- 4 Housing





 Without housing
 With housing

As a rotary table in a plate

Mounting and installation options

Mounting option

The rotary module can be attached on six sides.



Installation option







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Rotary modules ERMB, electric

Key features



Screws

Rotary modules ERMB, electric Key features

System product for handling and assembly technology 0/0 0.00 P

Syste	m components and accessories		
		Brief description	→ Page/Internet
1	Axes	Wide range of combinations possible within handling and assembly technology	axes
2	Guide axes	For extending force and torque capacity in multi-axis applications	guide axes
3	Rotary module	Wide range of combinations possible within handling and assembly technology	rotary module
4	Motors	Servo or stepper motors, with or without gear unit	motor
5	Gripper	Wide range of variations possible within handling and assembly technology	gripper
6	Adapters	For drive/drive and drive/gripper connections	adapter kit
7	Installation components	For a clean, safe layout of electrical cables and tubing	installation component

Rotary modules ERMB, electric Type code and peripherals overview

Type code ERMB 25 Туре ERMB Rotary module Size 20 Size 20 25 Size 25 32 Size 32

Peripherals overview



Acces	ssories		
	Туре	Brief description	→ Page/Internet
1	Sensing kit	For indicating impermissible swivel angles, i.e. obstacles or areas that cannot be	19
	EAPS	approached can be sensed using proximity sensors	
		(comprising: housing, trip cam support, 2 cams and sensor bracket)	
2	Proximity sensor	For use as a signal or safety check	19
	SIEN		
3	Adapter kit	Interface between the rotary module and drive	adapter kit
		(the rotary module can be attached to a drive with or without a sensing kit)	
4	Adapter kit	Interface between the rotary module and gripper	adapter kit
5	Rotary module	Facilitates unlimited and flexible rotation angles	6
	ERMB		
6	Axial kit	For axial motor mounting	16
	EAMM-A	(comprising: coupling, coupling housing and motor flange)	
7	Motor	 Motors specially matched to the axis, with or without brake 	16
	EMMS, MTR-DCI	• The motor can be turned by 90° for mounting, depending on requirements.	
		This means the connection side can be freely selected	

Rotary modules ERMB, electric Technical data

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General technical data							
Size		20	25	32			
Constructional design		Electromechanical rotary module w	Electromechanical rotary module with toothed belt				
Drive shaft \varnothing	[mm]	6	8	12			
Rotation angle		Infinite					
Repetition accuracy ¹⁾		·					
with servo motor EMMS-AS	[°]	±0.03					
with stepper motor EMMS-ST ²⁾	[°]	±0.08					
with motor unit MTR-DCI	[°]	±0.05					
Positioning times		→ 8					
Transmission ratio		4.5:1	3:1				
Position sensing		Via proximity sensor					
Mounting position		Any					
Product weight	[g]	850	1,460	3,250			

As per FN 942 027
 Depends on the encoder resolution

Mechanical data				
Size		20	25	32
Max. driving torque	[Nm]	0.7	2.2	8.5
Max. output torque ¹⁾	[Nm]	3.15	8.8	25.5
No-load driving torque ²⁾	[Nm]	< 0.07	< 0.18	≤ 0.5
Max. input speed	[rpm]	1,350	1,200	900
Max. output speed	[rpm]	300	300	300
Max. mass moment of inertia ³⁾				
with servo motor EMMS-AS	[kgcm ²]	50	200	1,000
with stepper motor EMMS-ST	[kgcm ²]	30	100	500
with motor unit MTR-DCIG7	[kgcm ²]	50	300	1,000
with motor unit MTR-DCIG14 [kgcm ²]		200	1,200	3,700
Toothed belt pitch		2	3	5
Hollow shaft \varnothing	[mm]	20	24	28

1) Output torque less friction depends on speed

2) At maximum speed

3) Depends on the size of the motor. Suitable motors \rightarrow 16

Operating and environmental conditions								
Size		20	25	32				
Ambient temperature	[°C] -10 +60							
Protection class		IP20						
Corrosion resistance class CRC ¹) 2								
Noise level T _{pEq} ²⁾	[dB A]	32	49	53				

1) Corrosion resistance class 2 as per Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

CRC 2 does not apply to ball bearings, retaining rings, screws < M5 2) In combination with servo motor EMMS-AS

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Rotary modules ERMB, electric

Technical data



Rota	ry module	
1	End cap	Anodised aluminium
2	Output shaft	Wrought aluminium alloy, anodised
3	Housing	Wrought aluminium alloy, anodised
4	Drive shaft	High-alloy stainless steel
5	Toothed belt	Polychloroprene with glass fibres

Maximum radial and axial force $\ensuremath{\mathsf{Fx}}\xspace/\ensuremath{\mathsf{Fy}}\xspace$ on the output shaft as a function of the distance $\ensuremath{\mathsf{y}}\xspace/\ensuremath{\mathsf{z}}\xspace$

If the rotary module is subjected to several forces at once, the following equation must be satisfied in addition to the maximum loads indicated below.



100 120 140 160 180 200

y [mm]

F _{y (z)} F _{y, max. (z)} +	F _{x, pushing (v)} F _{x, pushing,max. (v)}	$r + \frac{F_{x, pulling (v)}}{F_{x, pulling, max. (v)}} \le 1$





 ERMB-20
 ERMB-25

1000

500

0-

0

20 40 60 80

----- ERMB-32

Technical data



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Rotary modules ERMB, electric

Technical data

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Positioning time t as a function of the rotation angle α in combination with motor EMMS-.../motor unit MTR-DCI-... Size 25 with servo motor EMMS-AS 0.6 0.5 0.4 t [S] 0.3 0.2 0.1 Extended operating range 135 180 225 270 315 90 360 Typical operating range, depending on motor size and load inertia α [⁰] Unrealisable range with stepper motor EMMS-ST 0.6 0.5 0.4 t[s] 0.3 0.2 0.1 Extended operating range 90 135 180 225 270 315 360 Typical operating range, depending on motor size and load inertia α [°] Unrealisable range with motor unit MTR-DCI 1.4 1.2 1 [] 0.8 0.6 0.4 Limit line for MTR-DCI-42-G14 0.2 at 0 ... 1,200 kgcm² 135 180 225 270 315 360 90 ---- Limit line for MTR-DCI-42-G7 α [°] at 0 ... 300 kgcm²

- 闄 - Note

The positioning time t ends with the controller signal MC (motion complete), i.e. on the drive side. Increased positioning times are to be expected at the output shaft depending on the motor type and eccentricity of the moving load.

For servo motor: 50 ... 100 ms For stepper motor: 100 ... 200 ms

- - Note

The "PositioningDrives" design tool compiles the optimum combination of rotary module and motor for the respective application with respect to mass moment of inertia and positioning time, positioning accuracy. →www.festo.com

Technical data

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of the moving load.

Technical data

Information on service life characteristic values

Within the framework of product qualification, the specified statistic load changes/switching cycles were achieved with 3 samples.

Definition of load change/switching cycle: A switching cycle corresponds to two load changes: position A to position B and back.

Size 20 25 32 Guide value load changes [Mio.] 30 40 40 Guide value switching cycles [Mio.] 15 20 20 Mass moment of inertia at output [kgcm²] 24 80 400 Medium angle acceleration at output [°/sec²] 28,000 20,000 12,000 Maximum angle speed at output [°/sec] 1,800 1,800 1,800

The above specified statististic load change/switching cycles were achieved under the following defined operating conditions: horizontally hanging fitting, 180° swivel angle,

Dimensions

frequency 2 Hz, mass moment of inertia, acceleration (jerk-free) and max. angle speed as specified in the table, room temperature (23 ±5) °C.

Under different operating conditions, a shorter or longer service life is possible. The conditions of use and safety regulations specified in the product documentation must also be taken into account.

Size 20 149 ±0.5 60 ±0.11 min.9.6 9.5 ±0.1 1.6 +0.1 9^{H7} 76 ±0.1 6 2.1+0.2 19 ±0,15 M5 12 Ø9^{H7} 32,5 ±0.15 30 ±0.1¹⁾ Ø8 Ø9^{H7} 2.1+0.1 Ø70 f9 ø4.5 M8×1 1 ٦ M: ţ, 60 54 ±0.5 **@**] 0 6 •X// (0 30±0.1¹⁾ 30 ±0.1¹⁾ 40 ±0.1 Μ4 60 ±0.11) 2 2 Ø9H Ø6_{h6} M6 Ø 32 g7 72 ±0.05 2 65 ±0.2 Tolerance between centring 1) holes ±0.02 mm 6 28 ±0.1¹⁾ Đ 1 Thread for reference switch Mounting options 2 Ċ 3 Clamping component, width across flats 2.5 (supplied 28 ±0.1 2 60 ±0.11)

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loose)

Rotary modules ERMB, electric Technical data



Rotary modules ERMB, electric Technical data

Size	B1 ±0.2	D1 Ø f9	D2 Ø h6	D3 Ø g7		D4 Ø H7		D	5	[! 	06 ⊘ 17	D7		D8	D9	D10
25	85	80	8	40		24		M2	ōx1		9	M5		M6	M6	M4
32	115	112	12	60		28		M32	x1.5		9	M5		M6	M8	M5
Size	D11	D12	D13	D14		H1		H	2	ł	13	H4		H5	H6	L1
	Ø	Ø	Ø H7			±0.	5	±0	.1							±0.5
25	10	6.2	-	-		60		4	6	18	8.45	-		7	6.3	185
32	10	6.2	7	M4		76.0	5	6	0	2	3.5	6.5		6	9.4	222
Size	L2 ±0.2	L3 ±0.1	L4 ±0.1	L5 ¹⁾ ±0.1		L6	L ±0	.7	L8 ±0.1	15	L9 ¹⁾ ±0.1	L1	.0	L11 ±0.05	±0.1	±0.1
25	85	9.5	26	60	64	+±0.15	2	20	38	;	30	5	2	96	34	-
32	100	13	36	80	8	8±0.1	3	31	56.	5	40	6	3	108	45	30
							•									
Size	L14	L15	L16	T1		T2	Т	3	T4		T5	Т	6	T7	T8	Т9
	±0.15	±0.15	+0.2		+	-0.1	m	in.			min.			+0.1	min.	+0.2
25	38	42	-	12		2.1	1	2	10)	9.6	40.8	8±0.2	-	-	2.1
32	56.5	62	103	12		2.1	1	2	10)	10	54	.3	1.6	7.6	2.1

1) Tolerance between centring holes ±0.02 mm

Technical data



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Rotary modules ERMB, electric Technical data



Rotary modules ERMB, electric Technical data and accessories

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Ordering data			
	Size	Part No.	Туре
	20	552 706	ERMB-20
	25	552 707	ERMB-25
	32	552 708	ERMB-32

Accessories

Permissible axis/motor combination	s with axial kit – Without gear (ınit						
Motor/motor unit	Axial kit	Axial kit comprising:						
		Motor flange	Coupling	Coupling housing				
			JANE D					
Туре	Part No.	Part No.	Part No.	Part No.				
	Туре	Туре	Туре	Туре				
ERMB-20								
with servo motor								
EMMS-AS-40	560 281	-	558 312	560 280				
	EAMM-A-D32-35-40A		EAMC-30-32-6-6	EAMK-A-D32-35-40A				
with stepper motor								
EMMS-ST-42	543 148	552 164	543 419	552 155				
	EAMM-A-D32-42A	EAMF-A-28B-42A	EAMC-16-20-5-6	EAMK-A-D32-28B				
EMMS-ST-57-S	550 980	530 081	551 002	551 006				
	EAMM-A-D32-57A	MTR-FL44-ST57	EAMC-30-32-6-6.35	EAMK-A-D32-44				
with motor unit								
MTR-DCI-32S	543 149	-	543 420	552 156				
	EAMM-A-D32-32B		EAMC-16-20-6-6	EAMK-A-D32-32B				
ERMB-25								
with servo motor								
EMMS-AS-55	543 153	529 942	543 423	552 157				
	EAMM-A-D40-55A	MTR-FL44-AC55	EAMC-30-32-8-9	EAMK-A-D40-44				
EMMS-AS-70-S	550 981	529 943	551 004	552 157				
	EAMM-A-D40-70A	MTR-FL44-AC70	EAMC-30-32-8-11	EAMK-A-D40-44				
with stepper motor			•					
EMMS-ST-57	543 154	530 081	543 421	552 157				
	EAMM-A-D40-57A	MTR-FL44-ST57	EAMC-30-32-6.35-8	EAMK-A-D40-44				
with motor unit								
MTR-DCI-42SG7	543 155	-	543 422	552 158				
	EAMM-A-D40-42B		EAMC-30-32-8-8	EAMK-A-D40-42B				
MTR-DCI-42SG14	543 156	-	543 422	552 159				
	EAMM-A-D40-42C		EAMC-30-32-8-8	EAMK-A-D40-42C				

Permissible axis/motor combinatio	ns with axial kit – Without gear	r unit						
Motor/motor unit	Axial kit	Axial kit comprising:						
		Motor flange	Coupling	Coupling housing				
			O ARE					
Туре	Part No.	Part No.	Part No.	Part No.				
	Туре	Туре	Туре	Туре				
ERMB-32								
with servo motor								
EMMS-AS-70-M	543 161	529 945	543 424	552 160				
	EAMM-A-D60-70A	MTR-FL64-AC70	EAMC-42-50-11-12	EAMK-A-D60-64-L51				
EMMS-AS-100-S	550 983	529 947	551 005	551 007				
	EAMM-A-D60-100A	MTR-FL64-AC100	EAMC-42-50-12-19	EAMK-A-D60-64-L61				
with stepper motor		•		·				
EMMS-ST-87-M	543 162	533 140	543 424	552 160				
EMMS-ST-87-L	EAMM-A-D60-87A	MTR-FL64-ST87	EAMC-42-50-11-12	EAMK-A-D60-64-L51				
with motor unit		•		·				
MTR-DCI-52SG7	543 163	-	533 709	552 161				
	EAMM-A-D60-52B		EAMC-42-50-12-12	EAMK-A-D60-52B				
MTR-DCI-52SG14	543 164	-	533 709	552 162				
	EAMM-A-D60-52C		EAMC-42-50-12-12	EAMK-A-D60-52C				

Permissible axis/motor combinations with axial kit – With gear unit							
Gear unit	Motor	Axial kit	Axial kit comprising:				
			Motor flange	Coupling	Coupling housing		
				O ALE			
Туре	Туре	Part No.	Part No.	Part No.	Part No.		
		Туре	Туре	Туре	Туре		
ERMB-25							
with servo motor							
EMGA-40-P-G3-SAS-40	EMMS-AS-40	560 282	550 986	558 029	552 157		
		EAMM-A-D40-40G	EAMF-A-44-40G	EAMC-30-32-8-10	EAMK-A-D40-44		
		•		·	•		
ERMB-32							
with servo motor							
EMGA-60-P-GSAS-55	EMMS-AS-55	560 283	550 987	543 424	552 160		
		EAMM-A-D60-60G	EAMF-A-64-60G	EAMC-42-50-11-12	EAMK-A-D60-64-L51		
EMGA-60-P-G3-SAS-70	EMMS-AS-70	560 283	550 987	543 424	552 160		
		EAMM-A-D60-60G	EAMF-A-64-60G	EAMC-42-50-11-12	EAMK-A-D60-64-L51		

-- Note

Note the maximum permissible drive torque of the ERMB. The motor current may need to be limited.



Accessories

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Axial kit EAMM-A-...

Material: Coupling housing: Die-cast aluminium Coupling hubs: Wrought aluminium alloy Clamping component: High-alloy steel Screws: Galvanised steel





General technical data									
EAMM-A		D32-				D40-			
		32B	35-40A	42A	57A	42B	42C	55A	57A
Transferable torque	[Nm]	1.1	4.0	0.8	4.0	8.0			6.0
Mass moment of inertia	[kgmm ²]	0.3	5.87	0.3	5.87	5.87			
Mounting position		Any				Any			

EAMM-A		D40-		D60-						
		70A	40G	52B	52C	70A	87A	100A	60G	
Transferable torque	[Nm]	8.0		14.0		12.0		14.0	12.0	
Mass moment of inertia	[kgmm ²]	5.87		35.5						
Mounting position		Any								

Operating and environmental conditions					
Ambient temperature	[°C]	0 50			
Storage temperature	[°C]	-25 +60			
Protection class ¹⁾		IP40			
Relative air humidity	[%]	0 95			

1) Only with combined attachment of motor and axis

Dimensions and ordering data					
Туре	B1	L1	Weight	Part No.	Туре
			[g]		
EAMM-A-D32-32B	45	43	150	543 149	EAMM-A-D32-32B
EAMM-A-D32-35-40A	40	46	220	560 281	EAMM-A-D32-35-40A
EAMM-A-D32-42A	45	48	140	543 148	EAMM-A-D32-42A
EAMM-A-D32-57A	45	50.5	270	550 980	EAMM-A-D32-57A
EAMM-A-D40-42B	53.5	88	340	543 155	EAMM-A-D40-42B
EAMM-A-D40-42C	53.5	101	370	543 156	EAMM-A-D40-42C
EAMM-A-D40-40G	53.5	55.5	350	560 282	EAMM-A-D40-40G
EAMM-A-D40-55A	53.5	49.2	350	543 153	EAMM-A-D40-55A
EAMM-A-D40-57A	53.5	50.5	350	543 154	EAMM-A-D40-57A
EAMM-A-D40-70A	53.5	52	410	550 981	EAMM-A-D40-70A
EAMM-A-D60-52B	74	112	930	543 163	EAMM-A-D60-52B
EAMM-A-D60-52C	74	126	1,020	543 164	EAMM-A-D60-52C
EAMM-A-D60-60G	74	71.4	830	560 283	EAMM-A-D60-60G
EAMM-A-D60-70A	74	63.2	750	543 161	EAMM-A-D60-70A
EAMM-A-D60-87A	74	64.7	890	543 162	EAMM-A-D60-87A
EAMM-A-D60-100A	74	78.2	1,170	550 983	EAMM-A-D60-100A

Ordering data – Centring sleeves								
	For size	Brief description	Number	Part No.	Туре	PU ¹⁾		
1	20	For centring loads and attachments	2	186 717	ZBH-7	10		
		(centring sleeves are included in the scope	2	150 927	ZBH-9			
	25, 32	of delivery of the rotary module)	4	1				

1) Packaging unit quantity

For size Brief description Weight [g] Part No. Type Sensing kit EAPSS 20 Kit with housing (trip cam support, 25 258 558 392 EAPS-R1-20-S 32 2 2 cams, sensor bracket) 258 558 394 EAPS-R1-20-S 32 2 2 cams, sensor bracket) 258 558 394 EAPS-R1-20-S 560 558 394 EAPS-R1-32-S 560 558 394 EAPS-R1-20-S-WH Sensing kit without housing EAPSSWH 2 cams, sensor bracket) 86 558 395 EAPS-R1-20-S-WH 20 Xit without housing (trip cam support, 32 2 cams, sensor bracket) 90 558 396 EAPS-R1-20-S-WH 32 2 cams, sensor bracket) 136 558 397 EAPS-R1-20-S-WH 32 20, 25, 32 For sensing positions (the scope of delivery includes two cams) 5 each 558 398 EAPS-R1-CK Sensor bracket EAPSSH 20, 25 for attaching proximity sensors to the rotary module 5 558 399 EAPS-R1-20-SH 3	Ordering data						
Sensing kit EAPSS 20 Kit with housing (trip cam support, 2 cams, sensor bracket) 258 558 392 EAPS-R1-20-S 32 32 2 cams, sensor bracket) 406 558 393 EAPS-R1-25-S 560 558 394 EAPS-R1-32-S 560 558 394 EAPS-R1-32-S Sensing kit without housing EAPSS-WH 2 2 cams, sensor bracket) 86 558 395 EAPS-R1-20-S-WH 20 2 2 cams, sensor bracket) 2 cams, sensor bracket) 86 558 396 EAPS-R1-20-S-WH 32 2 2 cams, sensor bracket) 136 558 397 EAPS-R1-20-S-WH 32 2 cams, sensor bracket) 5 each 558 398 EAPS-R1-20-S-WH 32 2 cams, sensor bracket) 5 each 558 398 EAPS-R1-20-S-WH Cam EAPSCK 20, 25, 32 For sensing positions (the scope of delivery includes two cams) 5 each 558 398 EAPS-R1-20-SH Sensor bracket EAPSSH 20, 25 For attaching proximity sensors to the rotary module 24 558 399 EAPS-R1-20-SH Housing EAPSH <t< th=""><th></th><th>For size</th><th>Brief description</th><th>Weight [g]</th><th>Part No.</th><th>Туре</th><th>PU¹⁾</th></t<>		For size	Brief description	Weight [g]	Part No.	Туре	PU ¹⁾
20 Kit with housing (trip cam support, 2 cams, sensor bracket) 258 558 392 EAPS-R1-20-S 32 32 2 cams, sensor bracket) 406 558 393 EAPS-R1-20-S 560 558 394 EAPS-R1-32-S 560 558 394 EAPS-R1-32-S Sensing kit without housing EAPSSWH 20 Kit without housing (trip cam support, 25 86 558 395 EAPS-R1-20-S-WH 20 2 cams, sensor bracket) 2 cams, sensor bracket) 90 558 396 EAPS-R1-20-S-WH 21 2 cams, sensor bracket) 2 cams, sensor bracket) 90 558 396 EAPS-R1-20-S-WH 22 2 cams, sensor bracket) 136 558 397 EAPS-R1-20-S-WH 20 20, 25, 32 For sensing positions (the scope of delivery includes two cams) 5 each 558 398 EAPS-R1-20-SH 20, 25 7 For attaching proximity sensors to the rotary module 24 558 399 EAPS-R1-20-SH 30 558 400 EAPS-R1-32-SH 30 558 400 EAPS-R1-32-SH Housing EAPSH 20 For protecting the s	Sensing kit EAPSS						
23 2 cans, sensor brackety 400 378 333 DP-PR 1233 560 558 394 EAPS-R1-32-S 560 558 394 EAPS-R1-32-S Sensing kit without housing EAPSS-WH 20 Kit without housing (trip cam support, 25 2 2 2 2 20 22 2 2 2 2 2 2 2 2 2 2 30 558 396 EAPS-R1-20-S-WH 30 30 558 396 EAPS-R1-20-S-WH 30		20	Kit with housing (trip cam support,	258	558 392	EAPS-R1-20-S	1
Sensing kit without housing EAPSS-WH Image: Sensing kit without housing (trip cam support, 25 86 558 395 EAPS-R1-20-S-WH 20 Z Kit without housing (trip cam support, 25 86 558 395 EAPS-R1-20-S-WH 20 Z Z 2 cams, sensor bracket) 90 558 396 EAPS-R1-25-S-WH 32 2 cams, sensor bracket) 136 558 397 EAPS-R1-25-S-WH 32 2 cams, sensor bracket) 5 each 558 398 EAPS-R1-20-S-WH 136 558 397 EAPS-R1-20-SH 5 5 Sensor bracket EAPSSH 5 5 5 5 20, 25 For attaching proximity sensors to the rotary module 5 5 5 5 8 6 5 5 8 400 EAPS-R1-20-SH 5 5 30 5		32		560	558 394	FΔPS-R1-23-5	-
Sensing kit without housing EAPSS-WH 20 Kit without housing (trip cam support, 25 86 558 395 EAPS-R1-20-S-WH 32 32 2 cams, sensor bracket) 90 558 396 EAPS-R1-25-S-WH 32 32 32 136 558 397 EAPS-R1-25-S-WH 136 558 397 EAPS-R1-32-S-WH 136 558 397 EAPS-R1-32-S-WH Cam EAPSCK 20, 25, 32 For sensing positions (the scope of delivery includes two cams) 5 each 558 398 EAPS-R1-CK Sensor bracket EAPSSH 20, 25 For attaching proximity sensors to the rotary module 558 399 EAPS-R1-20-SH 30 558 400 EAPS-R1-32-SH 30 558 400 EAPS-R1-32-SH Housing EAPSH 20 20 For protecting the sensing kit and as mounting interface with a drive 172 560 673 EAPS-R1-20-H 316 560 674 EAPS-R1-23-H 424 560 675 EAPS-R1-23-H				500	550 574		
20 Kit without housing (trip cam support, 25 86 558 395 EAPS-R1-20-S-WH 32 32 32 332 333 33	Sensing kit without ho	ousing EAPSS-WH					
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		32		424	560 675	EAr3-K1-32-H	

Ordering data - Proximity sensors, inductiveTechnical data → Internet: sien							
	Contact	Connection	Part No.	Туре			
ANT ANT	N/O contact	Cable	150 386	SIEN-M8B-PS-K-L			
		Plug	150 387	SIEN-M8B-PS-S-L			
	N/C contact	Cable	150 390	SIEN-M8B-PO-K-L			
		Plug	150 391	SIEN-M8B-PO-S-L			

Ordering data – Conn	Technical data 🗲 Internet: nebu				
	Electrical connection, left	Electrical connection, right	Cable length	Part No.	Туре
			[m]		
	Straight socket, M8x1,	Cable, open end,	2.5	541 333	NEBU-M8G3-K-2.5-LE3
1 Alexandre and a second secon	3-pin	3-wire	5	541 334	NEBU-M8G3-K-5-LE3

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- Electromechanical drives
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- Standard valves

optimised valves

- Manually and mechanically actuated valves
- Proportional valves

• Safety valves



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- Vacuum security valves
- Vacuum accessories
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- Micro grippers
- Precision grippers
- Heavy-duty grippers



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- Pressure and flow sensors
- Display and operating units
- Inductive and optical proximity
- sensorsDisplacement encoders for
- positioning cylindersOptical orientation detection and
- quality inspection

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- Programmable logic controllers
- Fieldbus systems and accessories
- Timers/counters
- Software for visualisation and data acquisition
- Display and operating units

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