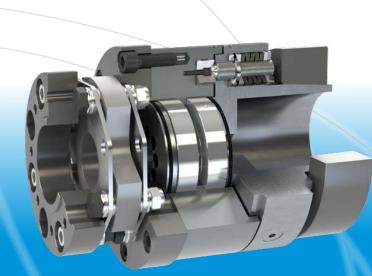


your reliable partner





EAS®-HSC/EAS®-HSE



Construction and Development

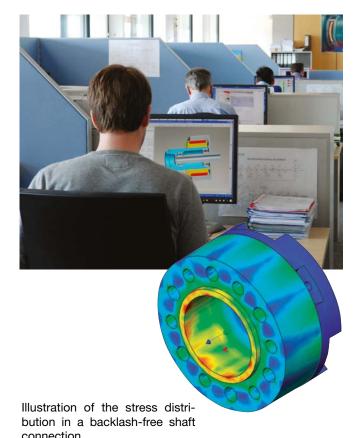
Innovations for Your Success

With our innovative and economical solutions, we are able to set new records in the field of power transmission. Our many worldwide patents prove our constant ambition of developing better and technologically superior products.

Highly qualified engineers, high-performance 3D-CAD-systems and the most up-to-date FEM calculation aids used in our Development and Construction departments mean that our business is perfectly equipped to offer our customers effective solutions.

Experts for all Power Transmission Questions

Exploit our know-how, gained by decades of experience in the development, production and application of power transmission products. Our experts in Construction and Development are happy to advise you personally and competently when selecting and dimensioning the drive solution you require.

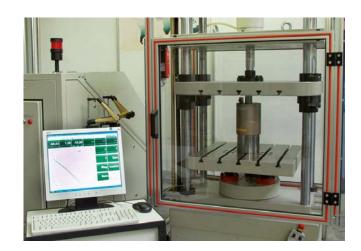


From Prototype to Finished Product

No mayr® product is released onto the market until it has proved its functional capabilities and reliability in extreme, long-term tests.

The spectrum of test stands is as varied as our range of products:

- ☐ Friction work test stands
- Wear test stands
- □ Noise measurement room with highly accurate noise measurement inspection devices
- ☐ Torque inspection stands up to 200.000 Nm
- ☐ Impact and alternating load test stands
- Force test stands
- ☐ Linear movement test stands
- ☐ Continuous performance test stands
- ☐ Magnetic flux measurement test stands
- ☐ High-speed test stands up to 20.000 rpm
- ☐ Misalignment and angular misalignment test stands
- Load and measurement test stands for DC motors



Product Data: Our 24-hour Service

Our website offers you detailed information 24 hours per day, 365 days per year with no delays. Here you can find not only the latest catalogues and technical documentation but also CAD-files for cost-saving construction of our products.

Unsurpassed Our Standard Program

For safety clutches, safety brakes, backlash-free shaft couplings and high-quality DC drives, we offer you a complete product range with market and branch optimised constructions and designs.



EAS®-HSC / EAS®-HSE The perfect safety clutches for all fast-running drives

Characteristics

- Positive locking overload clutch
- Complete separation
- Synchronous re-engagement
- □ Balanced when completely installed
- □ Diverse mounting variations
- ☐ High torsional rigidity
- ☐ High performance density
- ☐ Low mass moment of inertia
- ☐ High speeds of up to 12.000 rpm (up to 20.000 rpm possible as special design)



EAS®-HSC torque limiting clutch Torque range: 5 Nm – 1,000 Nm Speeds of up to 12,000 rpm

Compact, with a high performance density

In comparison to the torque limiting clutches common on the market, the new EAS®-HSC and EAS®-HSE test stand clutches possess numerous special technical features. What can be seen at first glance is the exceptionally compact design of the clutches. A high performance density reduces the rotating masses and has a positive effect on the running smoothness and machine dynamics.

High balance quality

The basic prerequisite for the use of a torque limiting clutch in high-speed applications is, amongst other things, the high balance quality of every individual component, in order to achieve optimised running smoothness of the drive line through the component combination.

Torque limiters consist of many individual parts, which must not change their positions within the clutch when the clutch is mounted and after overload occurrence. Design measures ensure that this is the case. In addition, the clutch is balanced in completely-assembled condition to a balance quality of G 2.5 – reference speed 3000 rpm.



EAS®-HSE torque limiting clutch Torque range: 100 Nm – 8.400 Nm Speeds of up to 12.000 rpm (up to 20.000 rpm possible as special design)

Ideal for use in test stands

We specialise in the development of customer-tailored solutions. Contact us if our standard-design EAS®-HSC and EAS®-HSE clutches do not provide the optimum solution for your test stand.

We will modify our standard products precisely according to your wishes, or develop an economic, customer-specific solution especially for you.

Profit from our 50 years of experience in the development, manufacture and implementation of test stand clutches.

Further test stand clutches and couplings

ROBA®-DS – torsionally rigid shaft coupling

ROBA®-DS shaft couplings transfer the nominal coupling torque using frictional locking and backlash-free even with full displacement and with alternating torques.

ROBA®-DSM – measuring machine element

Integrated into tried and tested, backlash-free shaft compensation couplings, the ROBA®-DSM permits condition monitoring of machines and systems.

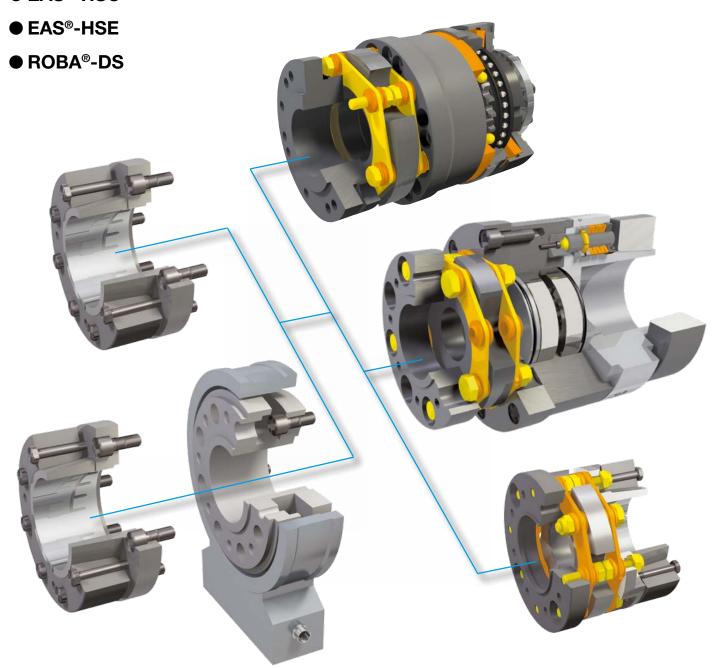
ROBATIC® – electromagnetic clutch

Energised to engage, electromagnetic pole face clutch for static and virtually static applications.



Configuration possibilities

● EAS®-HSC



With torque measuring flange

The construction of the system permits extremely high flexibility with regard to the connection points (hubs) and the output-side mounting parts (shaft coupling, EAS®-HSC, EAS®-HSE).

Standard market torque measuring flanges can be adapted.

Contact mayr® to obtain more details on your measuring flange



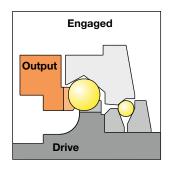
EAS®-HSC

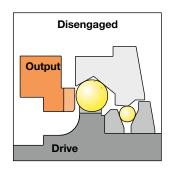
Function in case of overload

If the set limit torque is exceeded, the clutch disengages. The torque drops immediately. A mounted limit switch registers the disengagement movement and switches off the drive. The limit switch signal can also be used for further control functions.

The EAS®-HSC High-Speed-Compact completely disconnects the input and output side and remains in this condition until it is purposely re-engaged by hand or using devices.







During operation, EAS®-HSC clutches transfer the torque backlash-free and ensure that the drive components slow down freely after overload.

During the overtravel time, no engagement impacts occur which might have a negative effect on the drive line.

The design permits re-engagement only at the disengagement position.

EAS®-HSE

Function in case of overload

- ☐ If the proportional circumferential force on the individual elements proves too large, the resulting axial force causes an axial movement of the bolt via the ball/calotte system and therefore the disconnection of the torque transmission.
- ☐ The maximum circumferential force is individually determined through the adjusting nut and mayr®-cup springs. The transmittable torque is determined in this way.
- Due to the axial stroke of the bolt (ball carrier), the control segments move radially outwards, thereby disconnecting the components axially.
- ☐ Re-engagement of the balls through a bolt stroke in the direction of the calotte takes place manually.





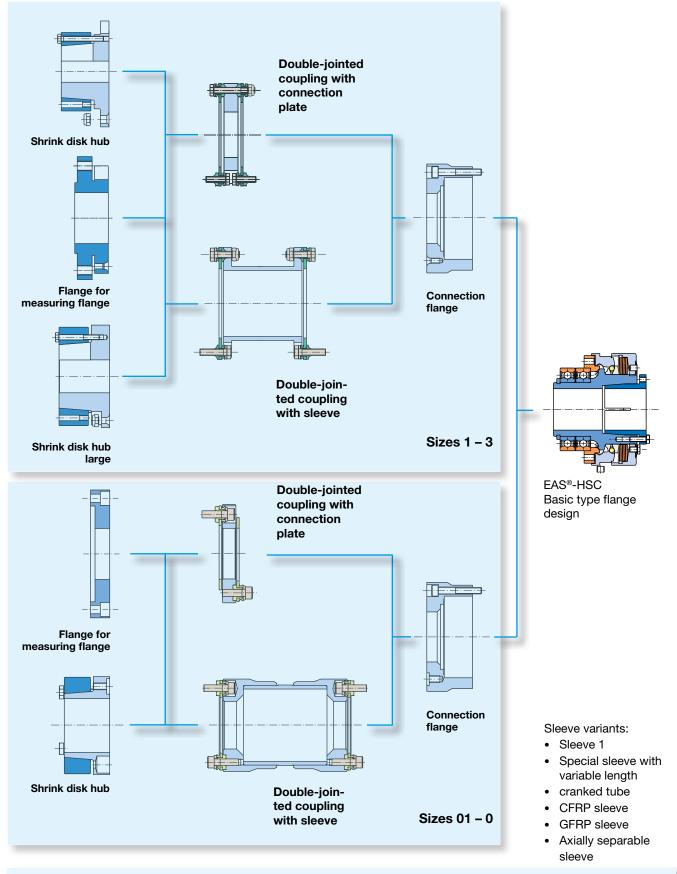


During operation, EAS®-HSE clutches transfer the torque low-backlash and ensure that the drive components slow down freely after overload.

Reliable, precise torque limitation through positive locking torque adjustment. Complete disconnection of the drive line on overload – no engagement impacts. Quick reengagement without special tools being necessary. High balance quality



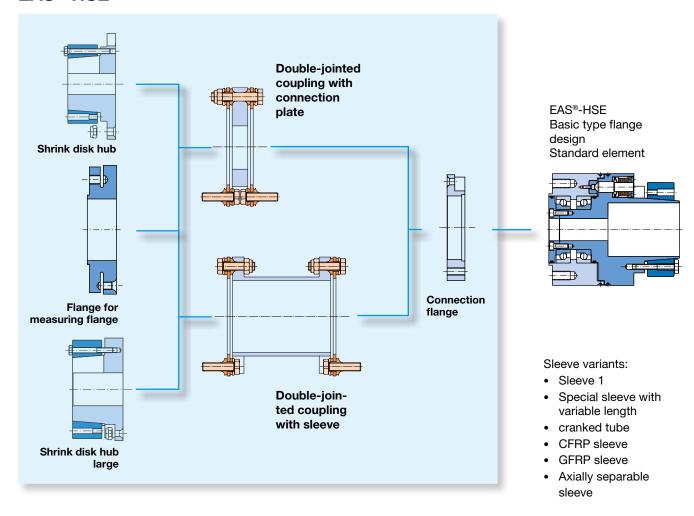
Configuration Possibilities/Standard Designs EAS®-HSC



We are happy to advise you on the dimensioning and configuration of your optimum design.



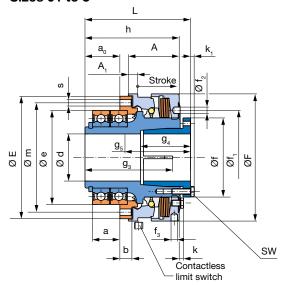
Configuration Possibilities/Standard Designs EAS®-HSE





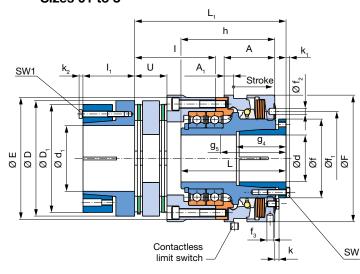
EAS®-HSC

EAS®-side cone bushing: Type 4090._1300 Basic Type Sizes 01 to 3

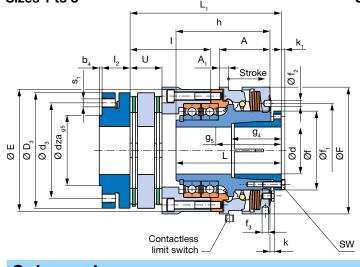


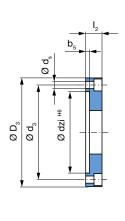
EAS®-side cone bushing: Type 4096._1316 ROBA®-DS-side for measuring flange Sizes 1 to 3

EAS®-side cone bushing: Type 4096._1319 ROBA®-DS-side shrink disk hub Sizes 01 to 3

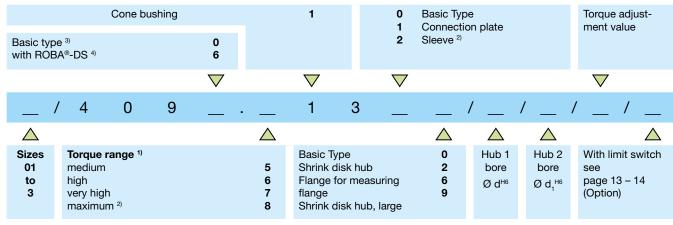


EAS®-side cone bushing: Type 4096._13_6 ROBA®-DS-side for measuring flange Sizes 01 to 0





Order number



Example: Order number 1 / 4096.61312 / 23 /25 /60 / limit switch 055.002.5

- 1) See Technical data, limit torque for overload $\rm M_{_{\rm G}},$ other torques on request
- 2) When using a sleeve, please contact mayr®

- 3) With basic type, only 4090._1300 possible
- 4) Not possible with ROBA®-DS 4096._1300



Technical Data				Size 1)						
rechnical Data	01	0	1	2	3					
Type 409513		M _G	[Nm]	5 – 12.5	10 – 25	20 - 50	40 – 100	80 – 200		
Limit torques for	Type 409613	M _G	[Nm]	10 – 25	20 - 50	40 – 100	80 – 200	160 – 400		
overload 1) 2)	Type 409713	M _G	[Nm]	20 – 50	40 – 100	80 – 200	160 – 400	320 - 800		
	Type 409813		[Nm]	25 – 62.5	50 – 125	100 – 250	200 – 500	400 – 1000		
Max. speed 10)		n _{max}	[rpm]	12000	10000	9000	7000	6000		
Max. speed	Type 409813	n _{max}	[rpm]	8000	7000	6000	5000	4000		
Thrust washer stroke	on overload		[mm]	2	2.6	3.2	3.8	4.3		
Nominal torques, tors	sionally rigid coupling	T _{KN}	[Nm]	100	150	420	650	1000		
axial 11)		$\Delta \mathbf{K}_{a}$	[mm]	0.3	0.35	0.3	0.35	0.4		
Permitted misalignments	radial		[mm]	0.06	0.05	0.05	0.08	0.1		
misangriments	angular	$\Delta \mathbf{K}_{\mathbf{w}}$	[°]	0.3	0.6	0.45	0.45	0.45		

Mass moments of inertia and weights 9)			Size						
			01	0	1	2	3		
EAS®-hub-side Type 40901300 I [10 ⁻³ kgm ²]			0.45	1.21	2.57	5.17	11.41		
EAS®-pressure flange sid	le Type 40901300	1	[10 ⁻³ kgm ²]	0.10	0.56	0.78	1.42	2.80	
ROBA®-DS-side	Type 4096131 ² / ₉	1	[10 ⁻³ kgm ²]	0.86	1.84	3.89	8.21	17.34	
NODA*-D3-Side	Type 40961316	1	[10 ⁻³ kgm ²]	0.86	1.66	3.85	8.52	15.44	
	Type 40901300	m	[kg]	0.97	1.77	2.77	3.97	6.34	
Weights Type 4096131 ² / ₉ Type 40961316		m	[kg]	2.07	3.42	5.53	8.26	12.98	
		m	[kg]	1.89	3.21	5.44	8.19	12.36	

Tonoioning corey	vo and aaraw an b	o roc				Size			
rensioning screv	Tensioning screws and screw-on bores				0	1	2	3	
Number, dimensions M [mm				6 × M4	6 × M4	8 × M4	8 × M5	8 × M6	
In cone bushing EAS®-side	Wrench opening	SW	[mm]	7	7	7	8	10	
LAO -Side	Tightening torque		[Nm]	4	4	4	8	12	
	Number, dimensions	M,	[mm]	4 × M5	6 × M5	6 × M5	6 × M5	6 × M6	
In shrink disk ROBA®-DS-side	Wrench opening	SW ₁	[mm]	8	8	8	8	10	
NOBA -BO-side	Tightening torque	T _A	[Nm]	6	6	8.5	8.5	14	
Screw-on bores Number, dimensions s [mm]			12 x M4	12 x M5	12 × M6	12 × M6	12 × M8		
in pressure flange Pitch				8 x 45° / 6 x 60°					

Dimensions			Size			
[mm]	01	0	1	2	3	
Α		34	40	45	50	55
A ₁	A ₁			10	10	10
a 4)		15	20	26	29	29
$\mathbf{a}_{_{0}}$		18	24	31	35	37
b		6	7	9	10	12
E		65	80	95	110	130
e _{h5} 5)		47	62	75	90	100
F		70	85	100	115	135
f		38	44	56	70	84
f,		50	55	70	84	100
f ₂		5	5	5	6	7
f ₃		4	6	6	6	6
Pitch			4	x 90)°	
Minimum	$g_{_3}$	50	60	76	83	93
shaft length	g ₅		g₄⊦	0,5	× d	
g_4		34	39	42	48	53
h		55	68	82	91	101
k		2.8	2.8	3.5	4.0	4.0
k ₁		2.8	2.8	2.8	3.5	4.0
L ⁶⁾	L ⁶⁾			90	100	112
m		56	71	85	100	116

Dim	nensions			Size		
[mr	n]	01	0	1	2	3
ROB	A®-DS	10	15	25	40	64
	D	69	79	89	104	123
6/	D ₁ 7)	-	-	82	100	115
312	D ₁ 8)	68	78	64	74	84
÷,	k_2	3.5	3.5	3.5	3.5	4
96	Property 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (103	123	138.8	161
4	I	44.3	51	64	73.8	86
Š	I ₁ 7)	-	-	45	50	55
-	l ₁ ⁸⁾	32	37.5	40	45	50
	U	15.3	15.8	22	26.2	34
	b ₄	-	-	2	2	3
	b ₅	3.5	3.5	-	-	-
	D ₃	100	100	99	123	123
16	d_3	87	87	84	101.5	101.5
Type 40961316	d _s	6.6	6.6	-	-	-
96	Pitch	8 x	45°	-	-	-
6	S ₁	-	-	M8	M10	M10
ре	Pitch	-	-		8 x 45°	·
₽		-	-		6 x 60°)
	dza _{g5}	-	-	57	75	75
	dzi ^{H6}	75	75	-	-	-
	l ₂	15	19	25	30.2	29.8

Bore	S		Size					
[mm]		01	0	1	2	3	
e 0		\mathbf{d}_{\min}	10	15	22	32	35	
EAS [®] . side	d ^{H6 2) 3)}	d _{max}	20	25	35	45	55	
10	ROBA®	-DS	10	15	25	40	64	
Ģ e	d, H6 7)	$\mathbf{d}_{\mathrm{1min}}$	19	25	32	40	45	
BA®-l	u ₁ ,	$\mathbf{d}_{_{1\text{max}}}$	38	45	52	60	70	
ROBA®-DS -side	d, H6 8)	$\mathbf{d}_{\mathrm{1 min}}$	19	25	20	25	30	
	u ₁ ,	d _{1 max}	38	45	36	45	45	

- 1) Further sizes for smaller and larger torques
- available on request

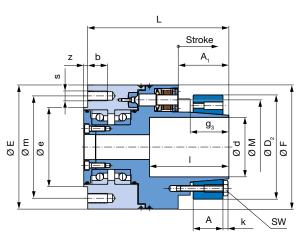
 2) Please observe the shaft load in max. torque
- range.
 3) Transmittable torques available with smaller bores on request
- 4) Mounting tolerance + 0.1
- 5) Tolerance user-side H6
- 6) Dimensions in untensioned condition (shorter in tensioned condition)
- 7) Only valid for type 4096._13_9 8) Only valid for type 4096._13_2
- 9) Mass moments of inertia and weights are valid for maximum bore
- 10) Higher speeds available on request
- Only permitted as a static or virtually static value.

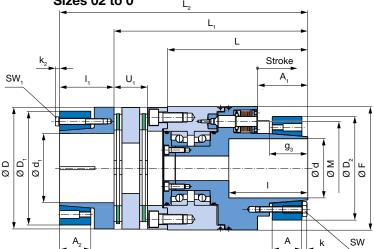


EAS®-HSE

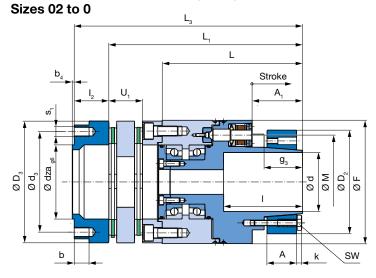
EAS®-side shrink disk hub: Type 4030.60400 **Basic Type** Sizes 02 to 0

EAS®-side shrink disk hub: Type 4036.60412 ROBA®-DS-side shrink disk hub Sizes 02 to 0





EAS®-side shrink disk hub: Type 4036.60416 ROBA®-DS-side for measuring flange



Order	numbe	er										
		Standard	l element			0		0	Basic Typ Connect			Torque adjustment
Basic type with ROB				0 6				2	Sleeve 2)			value
				∇		∇		∇				∇
_ /	4	0	3		·	0	4		_	/	/ /	_
\triangle					\triangle				\triangle	\triangle	\triangle	
Size 02 to 0	Torque r medium high very high maximur				4 5 6 7	Basic Typ Shrink dis Flange fo flange Shrink dis	sk hub r measu		0 2 6 9	Hub 1 bore Ø d ^{H6}	Hub 2 bore Ø d ₁ ^{H6}	

Example: Order number 01 / 4036.60416 / 52 / 70 / 1250

- 1) See Technical data, limit torque for overload $\rm M_{\rm G}$, other torques on request
- 2) When using a sleeve, please contact mayr®



Technical Data		EAS®-	element				Siz	e 1)	
recrimical Data	Technical Data		Type			02	01	()
Type 403404 _		2	440.604.0	M _G	[Nm]	100 – 250	325 – 650	1400 – 2800	-
Limit torques for	· ————		440.604.0	M _G	[Nm]	250 – 500	625 – 1250	2800 – 5600	-
overload 1) 2)			440.604.0	M _G	[Nm]	375 – 750	1000 – 2000	-	4200 – 8400
	Type 403704	8	440.604.0	M _G	[Nm]	500 – 1000	1250 – 2500	-	-
EAS®-element (Size)						02	01	()
Max. speed 7)				n _{max}	[rpm]	12000	10000	7000	7000
Bolt stroke on overlo	ad				[mm]	2.5	4	6	6
Nominal torques, tors	sionally rigid couplin	g		T _{KN}	[Nm]	1100	2600	5800	9500
Permitted radial		axial ⁸⁾	$\Delta \mathbf{K}_{a}$	[mm]	0.4	0.5	0.45	0.5	
			radial	$\Delta \mathbf{K}_{r}$	[mm]	0.1	0.1	0.1	0.1
imsangiments	misalignments		angular	ΔK_{w}	[°]	0.4	0.4	0.3	0.3

Tonoioning corows	and sarow on baros				Si	ze	
Tensioning screws and screw-on bores			02	01	()	
Number, dimensions		М	[mm]	4 × M8	8 × M8	8 × I	M12
In shrink disk, EAS®- side	Wrench opening	SW	[mm]	13	13	1	9
EAO - Side	Tightening torque	T _A	[Nm]	36	25	9	3
La alcabata de la	Number, dimensions	M ₁	[mm]	6 × M6	6 × M8	8 × M10	8 × M12
In shrink disk ROBA®-DS-side	Wrench opening	SW ₁	[mm]	10	13	17	19
HODA -DO-SIGE	Tightening torque	T _A	[Nm]	10	25	56	93
Screw-on bores in pressure flange	Pitch, dimension	s	[mm]	6 × 60° M10	6 × 60° M14	8 × 45° M20	8 × 45° M20

Mass moments of inertia and weights ⁶⁾				Size					
			02	01	()			
EAS®-hub-side	Type 403004	1	[10 ⁻³ kgm ²]	10.27	47.18	341	.80		
EAS®-pressure flange side	Type 403004	1	[10 ⁻³ kgm ²]	8.08	37.32	233	3.78		
	ROBA®-DS (Size)	ROBA®-DS (Size)			160	500	850		
ROBA®-DS-side	Type 40360416	1	[10 ⁻³ kgm ²]	10.22	40.90	193.76	281.63		
	Type 4036041 ² / ₉	1	[10 ⁻³ kgm ²]	12.02	53.90	241.01	405.59		
Weights	Type 40300400_	m	[kg]	8.77	22.46	68	.79		
Type 40360416		m	[kg]	13.22	32.15	93.94	100.04		
	Type 4036041 ² / ₉	m	[kg]	14.08	84.62	102.58	115.99		

Dimensions		Size	
[mm]	02	01	0
Α	30	38	63
$\mathbf{A}_{_{1}}$	51	63.4	89
L	142.2	182.4	250
Z	4	4	5
b	20	25	42
M	95	133	190
$D_{\!\scriptscriptstyle 2}$	105	141	234
1	80	100	130
$g_{_3}$	40	50	75
k	5.3	5.3	7.5
E	125	170	250
e _{h6} 3)	80	105	160
F	125	170	250
m	103	140	210

Di	mer	nsions		Siz	ze	
[m	m]		02	01	C)
RO	BA®-	-DS (Size)	64	160	500	850
		D	123	167	198	234
		D ₁ 4)	115	162	198	234
ွ		D ₁ ⁵⁾	84	118	198	234
112/		L,	162.2	250.8	344	359
اُو		L ₂ 4)	251.2	320.8	439	474
Type 4036041 ² / ₉		L ₂ ⁵⁾	246.2	310.8	439	474
94		U ₁	34	40.4	52	65
ğ		l ₁ ⁴⁾	55	70	95	115
_		l ₁ ⁵⁾	50	60	95	115
		k_2	4	5.3	6.4	7.5
		A_2	31.5	39	51	63
		dza _{g6}	75	90	110	140
~		d_3	101.5	130	155.5	196
416		D_3	123	167	210	252
0		b ₄	2	2.8	2.8	3
93		b	15	14	26	29
ē 4		Pitch		8 ×	45°	
Type 40360416	S ₁	Dimension	M10	M12	M14	M16
		l ₂	35	35	36	29
		L ₃	231.2	285.8	380	388

Paras [mm]			Size			
Bores [mm]		02	01	0		
EAS®- side	d ^{H6 2)}	$\mathbf{d}_{_{\mathrm{min}}}$	48	47	70	
Sic		d _{max}	60	75	120	
	ROBA®-DS		64	160	500	850
ROBA®-DS -side	d ₁ ^{H6 4)}	d _{1 min}	45	65	60	70
		d _{1 max}	70	100	100	120
	d ₁ ^{H6 5)}	d _{1 min}	30	40	60	70
		d _{1 max}	45	65	100	120

- 1) Further sizes for smaller and larger torques available on request
- 2) Please observe the shaft load in max. torque range
 3) Tolerance user-side H6

- Only valid for type 4036_04_9
 Only valid for type 4036_04_2
 Mass moments of inertia and weights are valid for maximum bore and 4 elements
- Higher speeds on request
- Only permitted as a static or virtually static value

We reserve the right to make dimensional and constructional alterations.



Further test stand clutches and couplings

ROBA®-DSM Torque measurement coupling

Measurement ranges 190 Nm – 1,600 Nm Accuracy < 1 %

Bandwidth 3.5 kHz, usable resolution 12 Bit

- ☐ Integrated into tried and tested, backlash-free shaft compensation coupling
- ☐ Simple electrical and mechanical installation
- ☐ Robust and reliable machine element
- □ Absolutely maintenance-free

Can be combined with ROBA®-DS shaft couplings and EAS®-torque limiting clutches

For detailed technical data, see Catalogue

ROBA®-DSM

P.971005.V__._



Torque range 10 Nm - 640 Nm Speeds: up to 8,600 rpm

- ☐ Short switching times/ high switching frequency
- ☐ High performance density
- □ Large permitted shaft diameter
- ☐ High torque security
- Easy installation
- Compact design

For detailed technical data, see Catalogue

ROBATIC®

K.500.V_ _._ _

ROBA®-DS shaft coupling

Torque range 3 Nm - 110,000 Nm Speeds: up to 13,600 rpm

- Resistant to alternating loads up to 100% of the nominal torque, up to Size 2200
- Low mass inertia due to high performance density
- ☐ Completely backlash-free up to nominal torque
- ☐ High misalignment compensation capability at low restoring forces
- ☐ High torsional rigidity up to nominal torque
- ☐ Completely wear and maintenance-free
- Optimum construction shape due to large variant range

For detailed technical data, see Catalogue

ROBA®-DS

K.950.V_ _._ _







ROBA®-DS shaft couplings transfer the nominal coupling torque using frictional locking and backlash-free even with full displacement and with alternating torques. The maximum performance density permits the use of the respective smallest size. The mass moment of inertia and the diameter are minimised.

Maximum running smoothness due to highly precise components and complete balancing.



Limit Switch Type 055.00_.5 (Contactless)

Application

This device is used for measuring and monitoring axial and radial disengagement movements, e.g. on EAS®-clutches. It acts as a control sensor for electronic and mechanical sequences.

Function

When the sensor surface of the NAMUR sensor scans a metal control flag (damped), the signalling relay is triggered, is deenergised and drops. Contacts 1 - 2 are opened. Damping is possible from all sides

Electrical Connection (Terminals)

1 – 2 – 3 Floating change-over contacts 5 – 6 Connection input voltage

Design

The electronic amplifier is installed in a light metal housing. The limit switch is fixed using two screw-on mounting links attached diagonally with M4 cap screws.

Technical Data

Input voltage 230 VAC ± 10 %, 50–60 Hz (dependent on design) 115 VAC, ± 10 %, 50 – 60 Hz

24 VDC, PELV, ±5 %,

protected against reverse polarity, for overvoltage category II connection

Power consumption Max. 1.5 VA

Ambient temperature -10 °C up to +60 °C limit switch -25 °C up to +60 °C NAMUR sensor

Protection IP54

Conductor cross-section Max. 2.5 mm² / AWG 14

Weight 400 g / 14 oz

Protection fuse 0.1 A/fast acting at 24 VDC (in system)

Signalling relay Floating change-over contacts

Contact load max. 250 VAC/12 A Contact material AgNi 90/10 max. switching frequency 20 Hz at min. load, 0.1 Hz at max. load

NAMUR sensor internal Installed in a light metal housing,

switching distance S_n 2 mm, flush fitting, max. switching frequency 2 kHz, the zero point can be set per 1 mm by means of the lateral adjusting

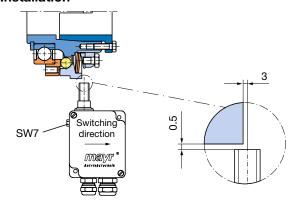
screw SW 7

NAMUR sensor external Metal housing M12 x 1, switching

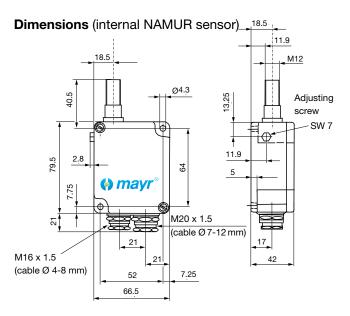
distance S_n 2 mm, flush fitting, max. switching frequency 2 kHz, standard cable length 2 m, max. 100 m on special design,

protection IP67

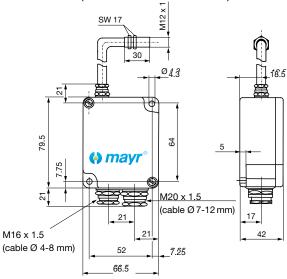
Installation







Dimensions (external NAMUR sensor)



Order number

Sensor internal

0 5 5 . 0 0 __ . 5 / __

Contactless sensing
Sensor external

Connection voltage
230 VAC

2

115 VAC

24 VDC



Endschalter Type 055.012.6 (Contactless, with mounting flange)

Application

The inductive proximity switch monitors and detects operating conditions on EAS® overload clutches. Axial movements caused by overload or switching procedures are registered by the proximity switch. The signal can be used for further process controlling e.g. for drive switch-off.

Function

When the overload clutch disengages, the inductive proximity switch converts from a damped to an undamped condition and the signal level on the output (2) changes from the input voltage value to 0V.

Electrical Connection

1	L+	BN (brown)
2	NO contact	BK (black)
3	L-	BU (blue)

Technical Data

NBB1.5-8GM30-E2-Y

M8 x 1 Construction size

Construction type Rustproof stainless steel

10 - 30 VDC PELV Input voltage

No-load current ≤ 15 mA Current carrying capacity 100 mA

PNP NO contact Contact type 1.5 mm, flush fitting Switching distance S

Assured

switching distance S 1.2 mm

Characteristics Reverse voltage protection

Clocking short circuit protection

Switching condition indicator via LED

Connection type cable 3 m/PUR

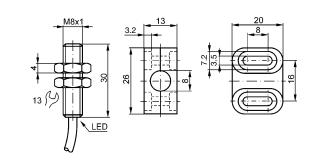
10 Nm Tightening torque Conductor cross section 0.14 mm²

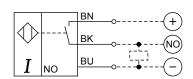
Ambient temperature -25 °C up to +70 °C

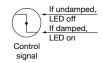
Protection

Accessory Mounting flange

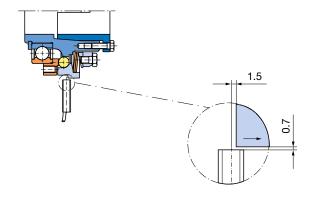
Dimensions (mm)

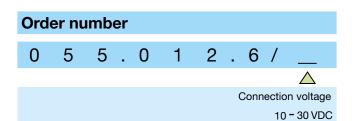






Installation







Product Summary

Safety Clutches/Overload Clutches

EAS®-Compact®/EAS®-NC

Positive locking and completely backlash-free torque limiting clutches

EAS®-smartic®

Cost-effective torque limiting clutches, quick installation

EAS®-element clutch/EAS®-elements

Load-disconnecting protection against high torques

■ EAS®-axial

Exact limitation of tensile and compressive forces

EAS®-Sp/EAS®-Sm/EAS®-Zr

Load-disconnecting torque limiting clutches with switching function

ROBA®-slip hub

Load-holding, frictionally locked torque limiting clutches

ROBA®-contitorque

Magnetic continuous slip clutches

EAS®-HSC/EAS®-HSE

High-speed safety clutches for high-speed applications

Shaft Couplings

smartflex®/primeflex®

Perfect precision couplings for servo and stepping motors

■ ROBA®-ES

Backlash-free and damping for vibration-sensitive drives

ROBA®-DS/ROBA®-D

Backlash-free, torsionally rigid all-steel couplings

■ ROBA®-DSM

Cost-effective torque-measuring couplings



Electromagnetic Brakes/Clutches

ROBA-stop® standard

Multifunctional all-round safety brakes

ROBA-stop®-M motor brakes

Robust, cost-effective motor brakes

ROBA-stop®-S

Water-proof, robust monoblock brakes

■ ROBA®-duplostop®/ROBA®-twinstop®/ROBA-stop®-silenzio®

Doubly safe elevator brakes

ROBA®-diskstop®

Compact, very quiet disk brakes

ROBA®-topstop®

Brake systems for gravity loaded axes

ROBA®-linearstop

Backlash-free brake systems for linear motor axes

ROBA®-guidestop

Backlash-free holding brake for profield rail guides

□ ROBATIC®/ROBA®-quick/ROBA®-takt

Electromagnetic clutches and brakes, clutch brake units

DC Drives

□ tendo®-PM

Permanent magnet-excited DC motors











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You can find the complete address for the representative responsible for your area under www.mayr.com in the internet. 👸