Fixing components for hollow shaft encoders | For encoders up to ø 58 mm | Overview

Figure	Description	Pitch circle diameter in mm [inch]	Order no.	Details s. page	Incremental encoders: 3620, 3720	Incremental encoders: 5020	Incremental encoders: 5823, 5824, 5825	Absolute singleturn encoders: 3670, 3671, M3678, F3673, F3678	Absolute singleturn encoders: 5873, 5878, F5873 Motor-Line, 5870, 5872	Absolute multiturn encoders: F3683, F3688	Absolute multiturn encoders: M3681, M3683, M3688	Absolute multiturn encoders: 5883, 5888, F5883, F5888, F5883M Motor-Line
	**Spring element, short** For applications with limited axial play and low dynamics, and reduced mounting space	36XX 42 [1.65] M36XX 42 [1.65] F36XX 42 [1.65] 37XX 40 [1.57] 50XX 42 [1.65] 58XX 42 [1.65] F58XX 42 [1.65]	**8.0010.4H00.0000** *Connection to the application:* cylindrical pin	645	X	X	X	X	X	X	X	X
	**Spring element, long** For applications with axial play and low dynamics	36XX 60 [2.36] M36XX 60 [2.36] F36XX 60 [2.36] 37XX 63 [2.48] 50XX 44 [1.73] 58XX 65 [2.56] F58XX 65 [2.56]	**8.0010.4I00.0000** *Connection to the application:* cylindrical pin	645	X	X	X	X	X	X	X	X
	**Torque stop, short (flexible)** For applications with axial and radial play, low dynamics	64.5 [2.54]	**8.0010.40M0.0000** *Connection to the application:* 1 screw	645		X	X		X			X
	**Torque stop, medium (flexible)** For applications with axial and radial play for constant rotary movements	65 ... 91.5 [2.56 ... 3.60]	**8.0010.40E0.0000** *Connection to the application:* 1 screw	645		X	X		X			X
	**Torque stop, long (flexible)** For applications with axial and radial play and low dynamics	80 ... 170 [3.15 ... 6.69]	**8.0010.4R00.0000** *Connection to the application:* 1 screw	646		X	X		X			X
	**Stator coupling, double-winged** For applications with axial and radial play and high dynamics	46 [1.81]	**8.0010.4C00.0000** *Connection to the application:* 2 screws	646	X			X				
	**Stator coupling, double-winged** For applications with high demands for accuracy	63 [2.48]	**8.0010.4D00.0000** *Connection to the application:* 2 screws	646		flange C + D	X		X			X
	**Stator coupling, for fixing to side of encoder** For standard applications with axial and radial play, and high dynamics	65 [2.56]	**8.0010.1602.0000** *Connection to the application:* 3 screws	647		flange C + D	X		X			X
	**Stator coupling, for fixing to front of encoder** For applications with axial and radial play and high dynamics	65 [2.56]	**8.0010.40L0.0000** *Connection to the application:* 3 screws	647		X	X		X			X
	**Spring tether element** For applications with low axial and radial play and low dynamics	42 ... 84.5 [1.65 ... 3.33]	**8.0010.40W0.0000** *Connection to the application:* 1 screw	647		X	X		X			X

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Accessories

Fixing components for hollow shaft encoders | For encoders up to ø 58 mm | Overview

Figure	Description	Pitch circle diameter in mm [inch]	Order no.	Details s. page	Incremental encoders			Absolute singleturn encoders			Absolute multiturn encoders		
					5834FSx	5020	5823, 5824, 5825	5873FSx	5873, 5878		5883FSx	5883, 5888, 5882 F5883, F5888, F5883M Motor-Line	
	**Stator coupling** Designed for functional safety thanks to the 4-screw-principle.	63 [2.48]	**8.0010.4048.00FS** *Connection to the application:* 4 screws	**648**	X	X	X	X	X		X	X	
	**Torque stop, flexible** Designed for functional safety. For applications with axial and radial play and low dynamics.	77 ... 278 [3.03 ... 10.94]	**8.0010.4047.00FS** *Connection to the application:* 1 screw	**648**	X	X	X	X	X		X	X	
	**Torque stop set, rigid** Designed for functional safety. For applications with very low axial and radial play and low dynamics.	71 ... 281 [2.80 ... 11.06]	**8.0010.4051.00FS** *Connection to the application:* 1 screw	**649**	X	X	X	X	X			X	

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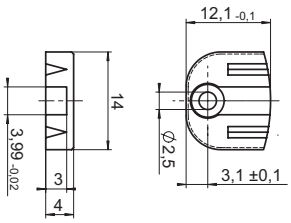
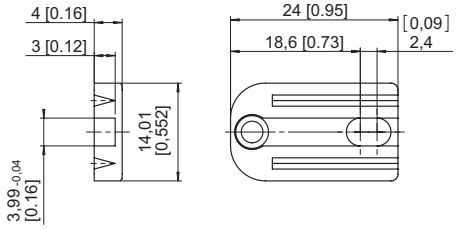
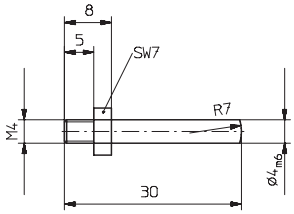
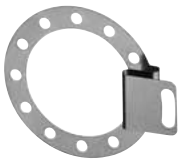
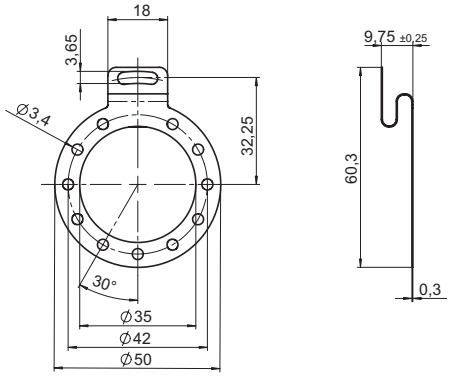
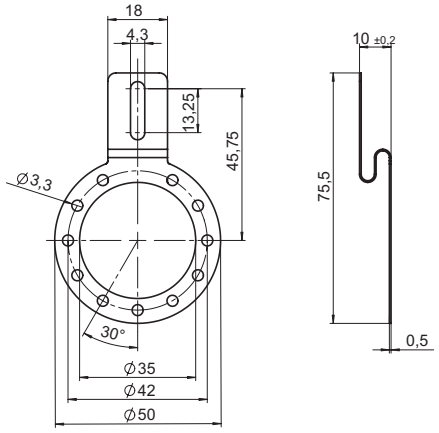
Fixing components for hollow shaft encoders | For encoders > ø 58 mm | Overview

Figure	Description	Pitch circle diameter in mm [inch]	Order no.	Details s. page	A020, A02H	9080, 9081	H120
	**Spring element, short** For applications with reduced mounting space	76 [2.99]	**8.0010.4J00.0000** *Connection to the application:* cylindrical pin	**650**	X	X	
	**Spring element, long** For applications with high axial play	110 [4.33]	**8.0010.4K00.0000** *Connection to the application:* cylindrical pin	**650**	X	X	
	**Tether square** For applications with axial and radial play with low dynamics for constant rotary movements	9080: 120 [4.72] 9081: 120 [4.72]	**8.0010.4G00.0000** *Connection to the application:* 1 screw	**650**		X	
	**Torque stop, short** For applications with axial play	149 [5.87]	**8.0010.4T00.0000** *Connection to the application:* s. details	**650**	X	X	
	**Torque stop, long** For applications with fastening points located on variable pitch circle diameters	104 ... 206 [4.09 ... 8.11]	**8.0010.4E00.0000** *Connection to the application:* 1 screw	**651**	X	X	
	**Tether arm, long** For applications with low axial and radial play, flexible in use	Length = 70 [2.75]: Length = 100 [3.94]: Length = 150 [5.91]: 262 ... 422 [10.32 ... 16.61]	**8.0010.40S0.0000** **8.0010.40T0.0000** **8.0010.40U0.0000** *Connection to the application:* 1 screw	**651**	X	X	X
	**Tether arm, long** For applications with low axial and radial play, flexible in use	Length = 70 [2.75]: Length = 100 [3.94]: Length = 150 [5.91]: 262 ... 422 [10.32 ... 16.61]	**8.0010.40S1.0000** **8.0010.40T1.0000** **8.0010.40U1.0000** *Connection to the application:* 1 screw	**652**			X
	**Stator coupling** For applications with axial and radial play and high dynamics	119 [4.69]	**8.0010.40V0.0000** *Connection to the application:* 2 screws	**652**	X		X

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Accessories

Fixing components for hollow shaft encoders | For encoders up to ø 58 mm | Details

Dimensions / Details	Dimensions in mm [inch]		Order no.
Spring element, short	 	*Scope of delivery*: - spring element (plastic) - 1 screw for fixing to the encoder *Connection to application:* - cylindrical pin (8.0010.4700.0000) (not supplied)	**8.0010.4H00.0000**
Spring element, long	 	*Scope of delivery*: - spring element (plastic) - 1 screw for fixing to the encoder *Connection to application:* - cylindrical pin (8.0010.4700.0000) (not supplied)	**8.0010.4I00.0000**
Cylindrical pin, long with fastening thread	 	suitable for spring element short (8.0010.4H00.0000) and long (8.0010.4I00.0000)	**8.0010.4700.0000**
Torque stop, short	 	*Scope of delivery*: - Fastening arm (stainless steel) - 3 screws for fixing to the encoder *Connection to application:* - 1 screw (not supplied)	**8.0010.40M0.0000**
Torque stop, medium	 	*Scope of delivery*: - Fastening arm (stainless steel) - 3 screws for fixing to the encoder *Connection to application:* - 1 screw (not supplied)	**8.0010.40E0.0000**

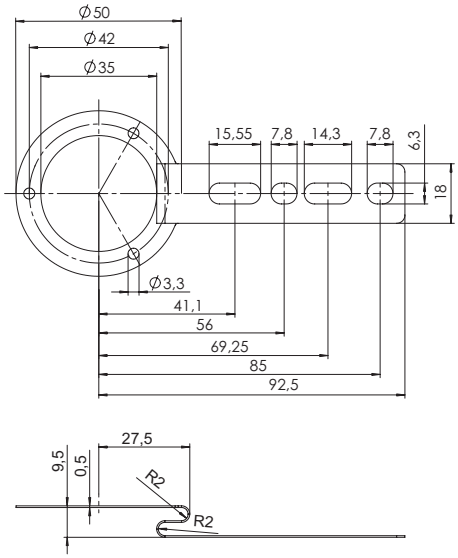
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Fixing components for hollow shaft encoders | For encoders up to ø 58 mm | Details

Dimensions / Details — Order no.

Torque stop, long





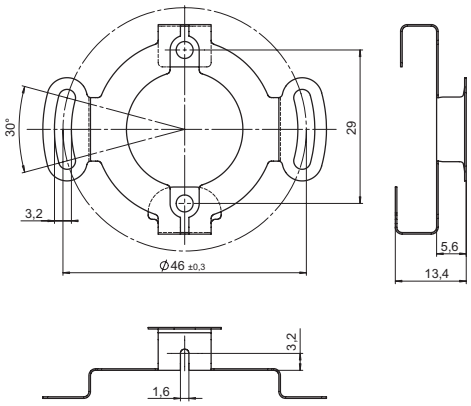
Scope of delivery:
- Fastening arm (stainless steel)
- 3 screws for fixing to the encoder

Connection to application:
- 1 screw (not supplied)

8.0010.4R00.0000

Stator coupling, double-winged
for front fixing onto the encoder flange





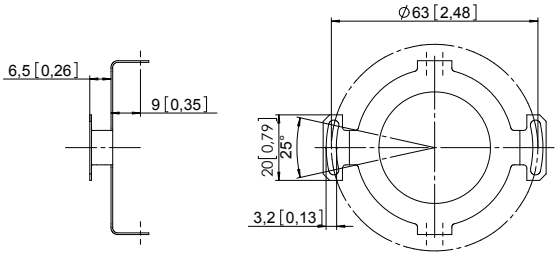
Scope of delivery:
- Stator coupling (stainless steel)
- 2 screws for fixing to the encoder

Connection to application:
- 2 screws (not supplied)

8.0010.4C00.0000

Stator coupling, double-winged
for side fixing onto the encoder flange





Scope of delivery:
- Stator coupling (stainless steel)
- 4 screws M2.5 x 6 [0.24] for fixing to the encoders

Connection to application:
- 2 socket head screws M3 x 8 [0.32] with washer (supplied)

8.0010.4D00.0000

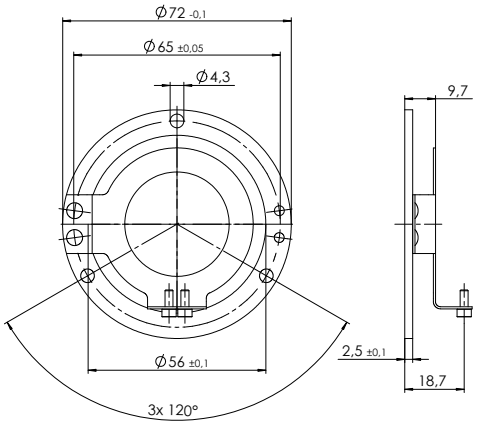
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Fixing components for hollow shaft encoders | For encoders up to ø 58 mm | Details

Dimensions / Details	Dimensions in mm [inch]	Order no.

Stator coupling
for side fixing onto the encoder flange





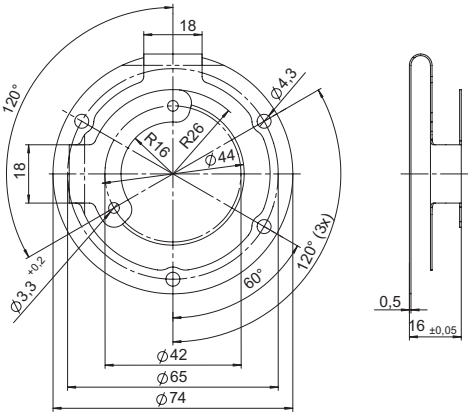
Scope of delivery:
- Stator coupling (stainless steel)
- 2 screws for fixing to the encoder

Connection to application:
- 3 screws (not supplied)

8.0010.1602.0000

Stator coupling
for front fixing onto the encoder flange





Scope of delivery:
- Stator coupling (stainless steel)
- 2 screws for fixing to the encoder

Connection to application:
- 3 screws (not supplied)

8.0010.40L0.0000

Spring tether element



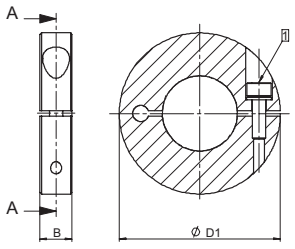
Scope of delivery:
- spring tether element
- 1 screw for fixing to the encoder

Connection to application:
- 1 screw (not supplied)

8.0010.40W0.0000

Clamping ring
Stainless steel, for high rotational speeds





for encoder	*B*	*D1*	*for hollow shaft ø*	
582X	6 [0.236]	29 [1.14]	10 [0.39]	**8.0000.4V00.0000**
	6.2 [0.244]	30 [1.18]	12 [0.47]	**8.0000.4W00.0000**
5020	6.2 [0.244]	30 [1.18]	12 [0.47]	**8.0010.4W01.0000**

[1] screw DIN 912 A2 M2.5, max. tightening torque 0.45 Nm

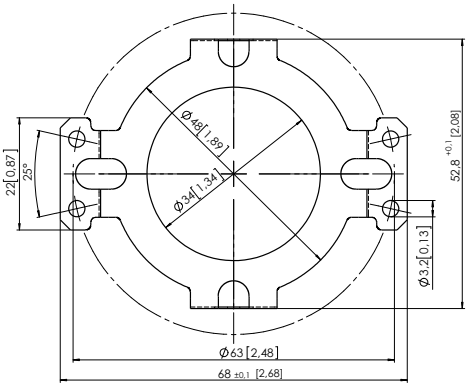
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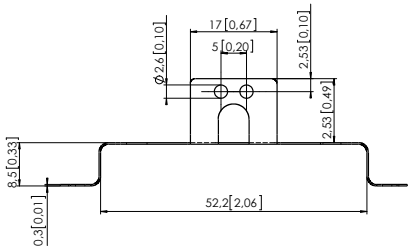
Fixing components for hollow shaft encoders | For encoders up to ø 58 mm | Details

Dimensions / Details	Dimensions in mm [inch]	Order no.

Stator coupling







Scope of delivery:
- Stator coupling (stainless steel)
- 4 screws M3x6 mm [M3 x 0.24"] for fixing to the encoder

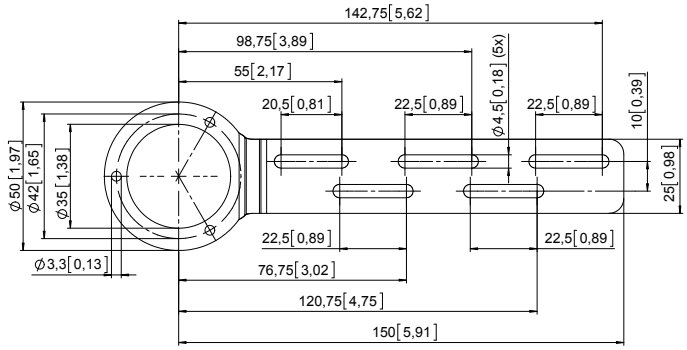
Connection to application:
- 4 screws (not supplied)

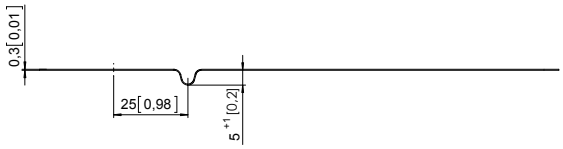
Max. permissible shaft connection tolerances:
- Axial offset < ± 0.25 mm
- Radial offset < ± 0.20 mm
- Angular offset < 1°

8.0010.4048.00FS

Torque stop, flexible







Scope of delivery:
- Fastening arm (stainless steel)
- 3 screws M3x6 mm [M3 x 0.24"] for fixing to the encoder

Connection to application:
- 1 screw (not supplied)

Max. permissible shaft connection tolerances:
- Axial offset < ± 0.25 mm
- Radial offset < ± 0.20 mm
- Angular offset < 1°

8.0010.4047.00FS

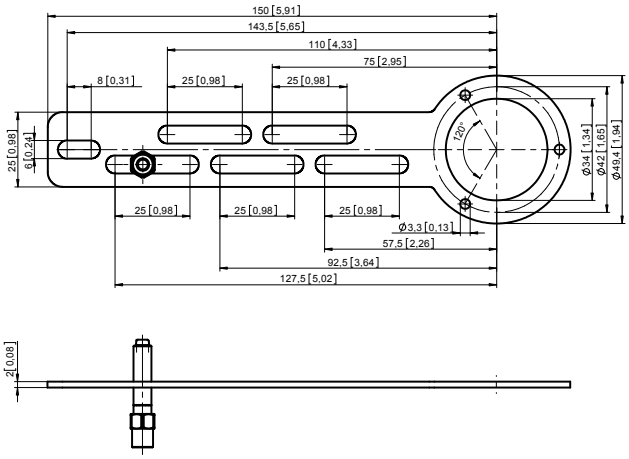
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Fixing components for hollow shaft encoders | For encoders up to ø 58 mm | Details

Dimensions / Details	Dimensions in mm [inch]	Order no.

Torque stop set, rigid





Scope of delivery:
- Fastening arm (stainless steel)
- 3 screws M3x6 mm [M3 x 0.24“] for fixing to the encoder

Connection to application:
- 1 screw

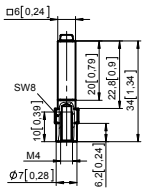
(not supplied)

Max. permissible shaft connection tolerances:
- Axial offset < ± 0.25 mm
- Radial offset < ± 0.20 mm
- Angular offset < 1°

8.0010.4051.00FS

Cylindrical pin (replacement)





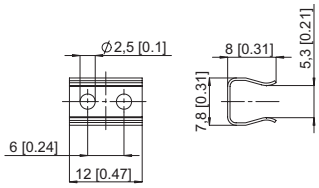
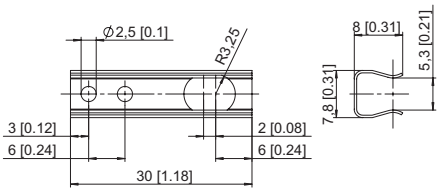
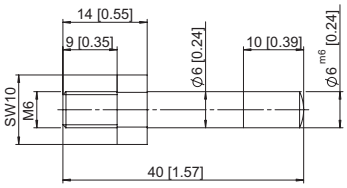
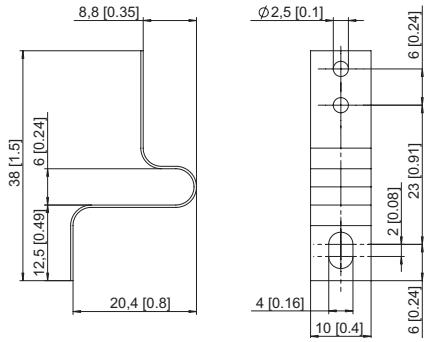
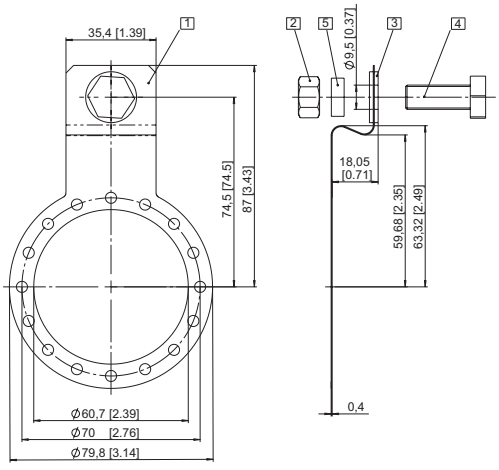
suitable for:

Fastening arm 8.0010.4051.00FS

8.0010.4049.0075

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Fixing components for hollow shaft encoders | For encoders > ø 58 mm | Details

Dimensions / Details	Dimensions in mm [inch]		Order no.
Spring element, short 		*Scope of delivery*: - Spring element (stainless steel) - 2 screws for fixing to the encoder *Connection to application:* - Cylindrical pin (8.0010.4700.0003) (not supplied)	**8.0010.4J00.0000**
Spring element, long 		*Scope of delivery*: - Spring element (stainless steel) - 2 screws for fixing to the encoder *Connection to application:* - Cylindrical pin (8.0010.4700.0003) (not supplied)	**8.0010.4K00.0000**
Cylindrical pin, long with fastening thread 		suitable for spring element short (8.0010.4J00.0000) and long (8.0010.4K00.0000)	**8.0010.4700.0003**
Tether square 		*Scope of delivery*: - Tether square (stainless steel) - 2 screws for fixing to the encoder *Connection to application:* - 1 screw (not supplied)	**8.0010.4G00.0000**
Torque stop, short 		*Scope of delivery*: 1 Fastening arm (stainless steel) - 3 screws for fixing to the encoder *Connection to application:* 2 Hexagonal nut 3/8 - 16 UNC 3 Washer (isolating) 4 Hexagonal screw 3/8 16 UNC x 1" 5 Washer D10.4 x 15 x 15 (supplied)	**8.0010.4T00.0000**

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Fixing components for hollow shaft encoders | For encoders > ø 58 mm | Details

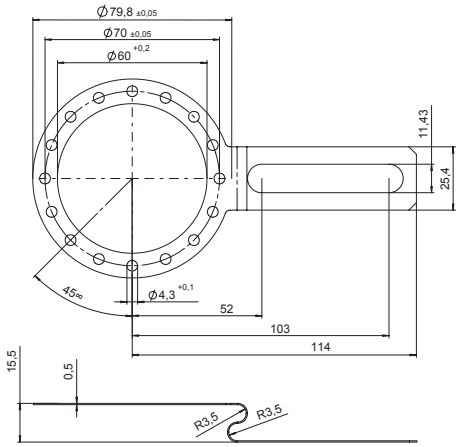
Dimensions / Details

Dimensions in mm [inch]

Order no.

Torque stop, short





Scope of delivery:
- Fastening arm (stainless-steel)
- 3 screws for fixing to the encoder

Connection to application:
- 1 screw (not supplied)

8.0010.4E00.0000

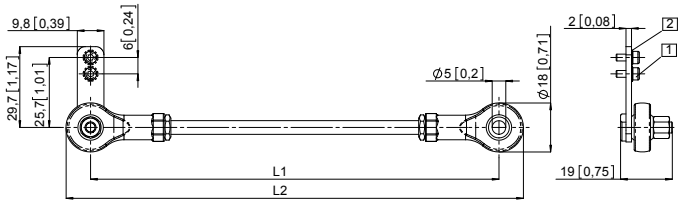
Tether arm, long



Tether arm	*L1*	*L2*	
70 mm [2.76]	64 ... 74 [2.51 ... 2.91]	82 ... 92 [3.23 ... 3.62]	**8.0010.40S0.0000**
100 mm [3.93]	94 ... 104 [3.70 ... 4.09]	112 ... 122 [4.41 ... 4.80]	**8.0010.40T0.0000**
150 mm [5.91]	144 ... 154 [5.67 ... 6.06]	162 ... 172 [6.38 ... 6.77]	**8.0010.40U0.0000**

Scope of delivery:
- Tether arm
- For fixing to the encoder:
  - 1 2 cap screws M2.5 x 6 [0.24]
  - 2 2 lock washers

Connection to application:
- 1 screw (not supplied)



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Fixing components for hollow shaft encoders | For encoders > ø 58 mm | Overview

Dimensions / Details Dimensions in mm [inch] Order no.

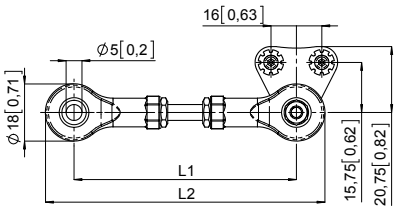
Tether arm, long

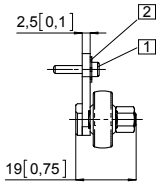


Tether arm	*L1*	*L2*	
70 mm [2.76]	64 ... 74 [2.51 ... 2.91]	82 ... 92 [3.23 ... 3.62]	**8.0010.40S1.0000**
100 mm [3.93]	94 ... 104 [3.70 ... 4.09]	112 ... 122 [4.41 ... 4.80]	**8.0010.40T1.0000**
150 mm [5.91]	144 ... 154 [5.67 ... 6.06]	162 ... 172 [6.38 ... 6.77]	**8.0010.40U1.0000**

Scope of delivery:
- Tether arm
- For fixing to the encoder:
  - 1 2 cap screws M2,5 x 12 [0.47]
  - 2 2 lock washers

Connection to application:
- 1 screw (not supplied





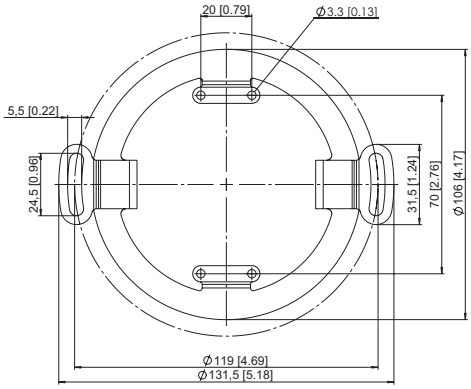
Stator coupling

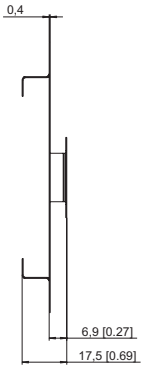


Scope of delivery:
- Stator coupling (stainless steel)
- 4 screws for fixing to the encoder

Connection to application:
- 2 screws (not supplied)

8.0010.40V0.0000





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Fixing components for hollow shaft encoders | For encoders > ø 58 mm | Overview

Dimensions / Details	Dimensions in mm [inch]	Order no.

Protective cover



For applications with a very high degree of pollution, Kübler now offers a protective cover for
- Improved reliability
- Extension of the service life of the encoder

Scope of delivery:
- Protective cover
- Fastening arm (8.0010.4T00.0000)
- 3 screws for fixing to the encoder

8.0010.40Y0.0001

Tapered shaft mounting kit

for A02H with hollow shaft, ø 38 mm [1.50"]



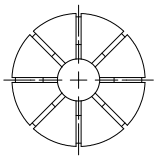
For use in upgrading for tapered shaft mounting. Tapered shafts are used for high-precision direct coupling.
An isolation insert is also included in the mounting kit; this reliably protects the encoder from shaft currents.
Included in the set:
- Insert for cone blind hole, cone 1:10, 17 mm [0.67"] length
- Isolation insert
- Allen screw for central fixing

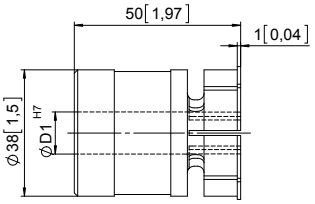
8.0010.4028.0000

Isolation insert for hollow shaft, ø 38 mm [1.50"]

Temperature range -40°C ... +115°C [-40°F ... +239°F]







Isolation inserts prevent currents from passing through the encoder bearings. These currents can occur when using inverter controlled three-phase or AC ector motors and considerably shorten the service life of the encoder bearings. For more details please call our technical hotline (+49 7720 3903 92) or send us an email (info@kuebler.com)

ø D1:	
12 mm [0.47"]	**8.0010.4091.0000**
14 mm [0.55"]	**8.0010.4027.0000**
15 mm [0.59"]	**8.0010.4038.0000**
16 mm [0.63"]	**8.0010.4019.0000**
18 mm [0.71"]	**8.0010.4080.0000**
20 mm [0.79"]	**8.0010.4011.0000**
25 mm [0.98"]	**8.0010.4012.0000**
30 mm [1.18"]	**8.0010.4016.0000**
32 mm [1.26"]	**8.0010.4015.0000**
1/2"	**8.0010.4013.0000**
5/8"	**8.0010.4070.0000**
3/4"	**8.0010.4090.0000**
1"	**8.0010.4050.0000**
1 1/4"	**8.0010.4060.0000**

Isolation insert for hollow shaft, ø 42 mm [1.65"]

external diameter 42 mm [1.65"] / internal diameter 38 mm [1.50"]	**8.0010.4017.0000**
external diameter 42 mm [1.65"] / internal diameter 12 mm [0.47"]	**8.0010.4029.0000**

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