PRODUCT INFORMATION

AHS/AHM36 CANOPEN

FLEXIBLE, SMART, COMPACT

Absolute encoders

SICK
Sensor Intelligence.

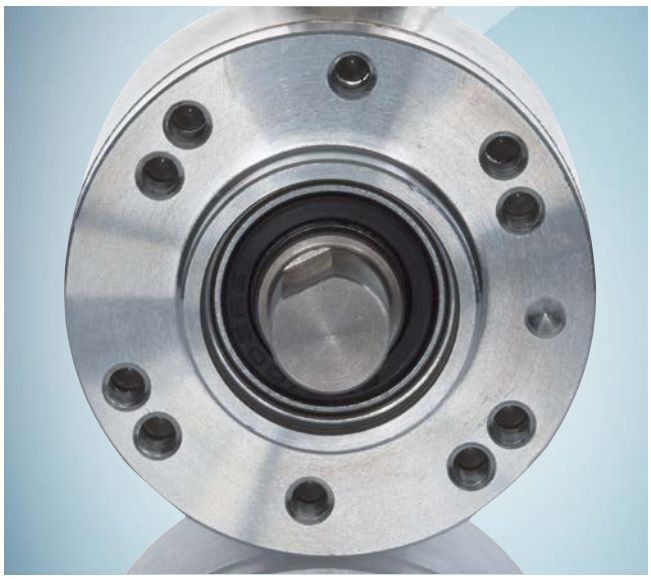
Compact. First-class. One of a kind. The new AHS36/AHM36 singleturn and multiturn absolute encoders from SICK. With their compact size – just 36 mm – and special rotating connector/cable outlet, these encoders are ideal for applications where larger housing diameters would take too much space. There is an extensive range of versions available with blind hollow shafts or solid shafts, each with different assembly hole patterns, thus permitting virtually any application possibility. The AHS36/AHM36 encoders are particularly popular for automated guided systems (AGS), industrial vehicles, and utility vehicles. However, they are also in demand for packaging machines, logistics applications, and in machine construction.

Small yet great

In machine construction, and particularly in AGS, the trend is toward more and more compact designs which offer exceptional performance. The new AHS36/AHM36 encoders were developed with this in mind. They provide an exceptional technical performance coupled with extremely compact dimensions.

Diversity is the order of the day

In order to provide maximum flexibility in the design of the customer-side mechanical interface, the AHS36/AHM36 encoders are available with three different types of flange (face mount flange, servo flange, blind hollow shaft) each with five different shaft diameters.
Various assembly hole patterns are available in the face mount flange. A range of different pitch hole diameters are covered by the flexible stator coupling on the blind hollow shaft.
And last but not least, a range of adapters guarantee compatibility with almost all 36 mm absolute encoders up to 60 mm flange designs.



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winner

Simply by moving

Customized solutions par excellence:
The rotating connector/cable outlet is the latest SICK encoder innovation.

This makes it possible to integrate the AHS36/AHM36 into the most limited of spaces and reduces the number of encoder variants when different installation situations are required.

That‘s the way...: With the rotating connector and cable outlet, the numerous flanges for mechanical adaptation, and the simple programming process, SICK sets the benchmark for products of this size and offers the best package in the 36 mm class.

CANopen®

The right diagnosis

Intelligent diagnostic functions and a fast data transmission rate increase productivity. Early detection of errors makes the network more reliable.

The two separate diagnosis memories (total/individual) offer extra convenience. The result is precise feedback for evaluations and for determining the maintenance intervals for the overall system.

Available diagnostic data

- Max speed
- Current/min/max temperature
- Number of power-ups
- Operating time under electrical voltage
- Operating time in motion
- Counter for forward/backward rotation
- Counter for change of direction
- Min/max operating voltage

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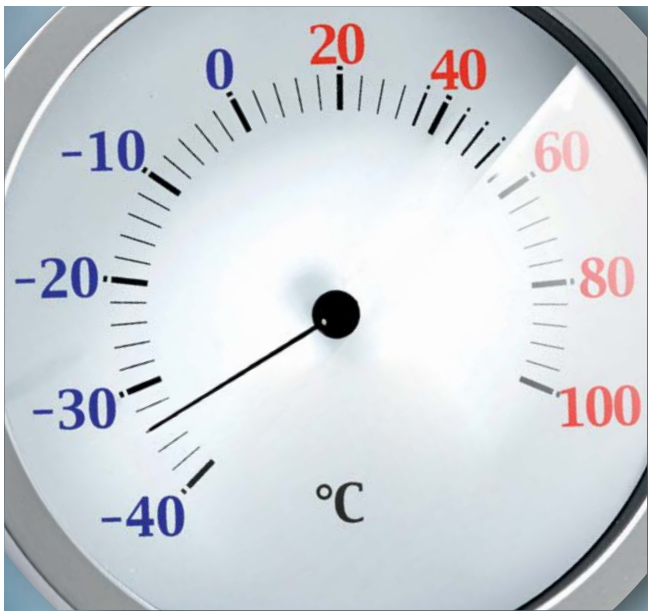

Individual programming options control unit (PLC)

- Singleturn resolution
- Multiturn resolution
- Counting direction (cw/ccw)
- Set preset values
- Sampling rate for speed calculation
- Output unit for speed value
- Round axis functionality

For rough environments

The fully magnetic AHS36/AHM36 are tough enough to withstand dust, powerful water jets, or brief periods of immersion (IP66, IP67), and can operate reliably at temperatures of -40 °C to +85 °C.

FLEXIBLE, SMART, COMPACT

Additional information

Product description

The AHS/AHM36 CANopen absolute encoder product family provides increased flexibility and diagnostics due to its mechanical adaptation, electrical connectivity, and CANopen communication. With their rotatable male connector or cable outlets as well as the various mounting hole patterns and adapter flanges, these encoders are suitable for nearly any application. Individual adjustments can be made to the singleturn/multiturn resolution, the counting direction, and other parameters when integrating the encoders into the CANopen network. The encoder also communicates diagnostic data such as temperature or operating time. Thanks to the large operating temperature range from –40 °C to +85 °C and the protection class up to IP67, this encoder family can be used in harsh ambient conditions. The rugged, reliable, fully magnetic sensor system provides a maximum resolution of 14 bits for the singleturn variant and 26 bits for the multiturn variant.

At a glance

- Compact 36 mm absolute encoder with max. 26 bits (singleturn: 14 bits, multiturn: 12 bits)
- Face mount flange, servo flange, blind hollow shaft
- Rotatable M12 male connector or rotatable cable outlet
- CANopen interface with programmable configuration
- Diagnostic functions: temperature, operating time, etc. (depending on the type)
- Protection class up to IP67 (depending on the type)
- Operating temperature: –40 °C to +85 °C (depending on the type)

Your benefits

- Simple, time-saving mechanical installation due to a rotatable male connector or rotatable cable outlet, various mounting hole patterns, and many different shafts
- Simple network installation with various configuration options
- Intelligent diagnostic functions evaluate maintenance intervals for the entire system, thereby increasing system reliability
- Easy setup for various applications allowing binary, non-binary, and non-integer resolutions with the round axis functionality (advanced version)
- Reliable operation in harsh environments thanks to the rugged, reliable, fully magnetic sensor system
- Space-efficient and cost-effective design that is suitable for applications where space is tight
- High performance at a cost-efficient price

→ www.mysick.com/en/AHS_AHM36_CANopen

For more information, simply enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples, and much more.

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Detailed technical data

Performance

	Basic	Advanced
Max. number of steps per revolution	4,096 (12 bit)	16,384 (14 bit)
Max. number of revolutions		
Absolute singleturn	1	
Absolute multiturn	4,096 (12 bit)	
Resolution[1]		
Absolute singleturn	12 bit	14 bit
Absolute multiturn	12 bit x 12 bit	14 bit x 12 bit
Error limits	± 0.35° (at 20°C)	
Repeatability	± 0.25° (at 20°C)	± 0,2° (at 20°C)
Measurement step	0.09°	0.022°
Initialization time	2 s [2]	

[1] programmable options via control unit

[2] Valid positional data can be read once this time has elapsed.

Interfaces

	Basic	Advanced
Electrical interface	CANopen	
Bus	CANopen®	
Encoder profile	CANopen CiA DS-301, V4.02 CiA DSP-305 LSS Encoder Profile: – CiA DS-406, V3.2. – Class C2	
Address setting	0 ... 127, default: 5	
Data transmission rate (baud rate)	20 kbit/s ... 1,000 kbit/s default setting: 125 kbit/s	
PDO data	Position, speed, temperature	
Configuration data	Number of steps per revolution, number of revolutions, PRESET, counting direction, sampling rate for speed monitoring, unit for output of the speed value	Number of steps per revolution, number of revolutions, PRESET, counting direction, sampling rate for speed monitoring, unit for output of the speed value, round axis functionality (multiturn version only), electronic cams (2 channels x 8 cams)
Available diagnostic data	–	Minimum and maximum temperature, maximum speed, power-on counter, operating hours counter power-on/motion, counter of direction changes/number of movements cw/number of movements ccw, minimum and maximum operating voltage
Status information	CANopen status via status LED	
Bus termination	Via external terminator [3]	

[3] See accessories.

Electrical data

	Basic	Advanced
Connection type	Male connector M12, 5-pin, universal Cable, 5-core universal, 0.5 m Cable, 5-core universal, 1.5 m Cable, 5-core universal, 3 m Cable, 5-core universal, 5 m	
Max. power consumption (without load)	1.5 W	
Operating voltage range	10 V DC ... 30 V DC	
Reverse polarity protection	✔	
MTTFd: mean time to dangerous failure [4]	270 years (EN ISO 13849-1)	

[4] This product is an standard product and does not constitute a safety component as defined in the Machinery Directive. Calculation based on nominal load of components, average ambient temperatrue 40 ° C, frequency of use 8760 h/a. All electronic failures are considered hazardous. For more information, see document no. 8015532.

Mechanical data

	Basic	Advanced
Shaft diameter		
Solid shaft	6 mm, 1/4“, 8 mm, 3/8“, 10 mm	
Blind hollow shaft	6 mm, 1/4“, 8 mm, 3/8“, 10 mm	
Start up torque		
Solid shaft	0.5 Ncm (at 20 °C)	1 Ncm (at 20 °C)
Blind hollow shaft	0.5 Ncm (at 20 °C)	1 Ncm (at 20 °C)
Operating torque		
Solid shaft	< 0.5 Ncm (at 20 °C)	< 1 Ncm (at 20 °C)
Blind hollow shaft	< 0.5 Ncm (at 20 °C)	< 1 Ncm (at 20 °C)
Permissible shaft loading		
Solid shaft	40 N (radial) 20 N (axial)	
Permissible shaft movement, static/ dynamic		
Blind hollow shaft	± 0.3 mm/ ± 0.1 mm radial ± 0.3 mm/ ± 0.1 mm axial	
Operating speed max.		
Singleturn	9,000 /min [1]	6,000 /min [2] [3]
Multiturn	6,000 /min [1]	6,000 /min [2] [3]
Bearing lifetime		
Solid shaft	3.6 x 10^8 revolutions	
Blind hollow shaft	2.0 x 10^9 revolutions	
Shaft material	Stainless steel	
Flange material	Aluminum	
Housing material	Zinc	

[1] Self warming of 3.5 K per 1000 revolutions/min when applying note working temperature range.

[2] Self warming of 5.5 K per 1000 revolutions/min when applying note working temperature range.

[3] For Advanced type encoders, the shaft seal must be inspected regularly.

	Basic	Advanced
Cable material	PUR	
Mass		
Solid shaft	0,12 kg (Based on devices with connector outlet)	
Blind hollow shaft	0,12 kg (Based on devices with connector outlet)	
Rotor moment of inertia		
Solid shaft	2.5 gcm²	
Blind hollow shaft	15 gcm²	
Max. angular acceleration	≤ 500,000 rad/s²	

[1] Self warming of 3.5 K per 1000 revolutions/min when applying note working temperature range.

[2] Self warming of 5.5 K per 1000 revolutions/min when applying note working temperature range.

[3] For Advanced type encoders, the shaft seal must be inspected regularly.

Ambient data

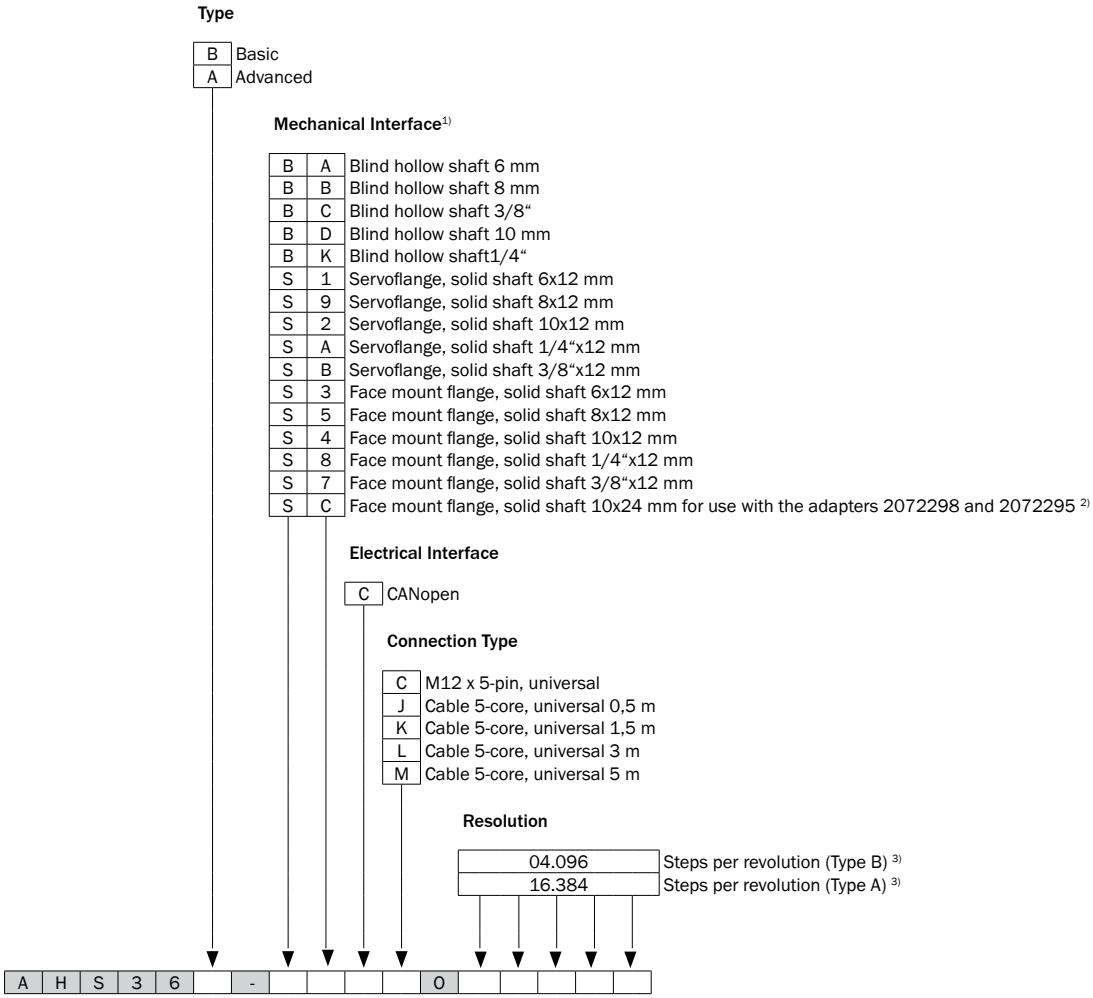
	Basic	Advanced
EMC	According to EN 61000-6-2 and EN 61000-6-3	
Enclosure rating	IP 65 on housing side (acc. to IEC 60529) [1] IP 65 on shaft side (acc. to IEC 60529)	IP 66 + IP 67 on housing side (acc. to IEC 60529) [1] IP 66 + IP 67 on shaft side (acc. to IEC 60529) [2]
Permissible relative humidity	90% (condensation not permitted)	
Working temperature range	–20 °C ... +70 °C	–40 °C ... +85 °C
Storage temperature range	–40 °C ... +100 °C, without packaging	
Resistance to shocks	100 g, 6 ms (according to EN 60068-2-27)	
Resistance to vibrations	20 g / 10 Hz ... 2,000 Hz (according to EN 60068-2-6)	

[1] With mating connector fitted.

[2] For advanced type encoders, the shaft seal must be inspected regularly.

Type code

Singleturn

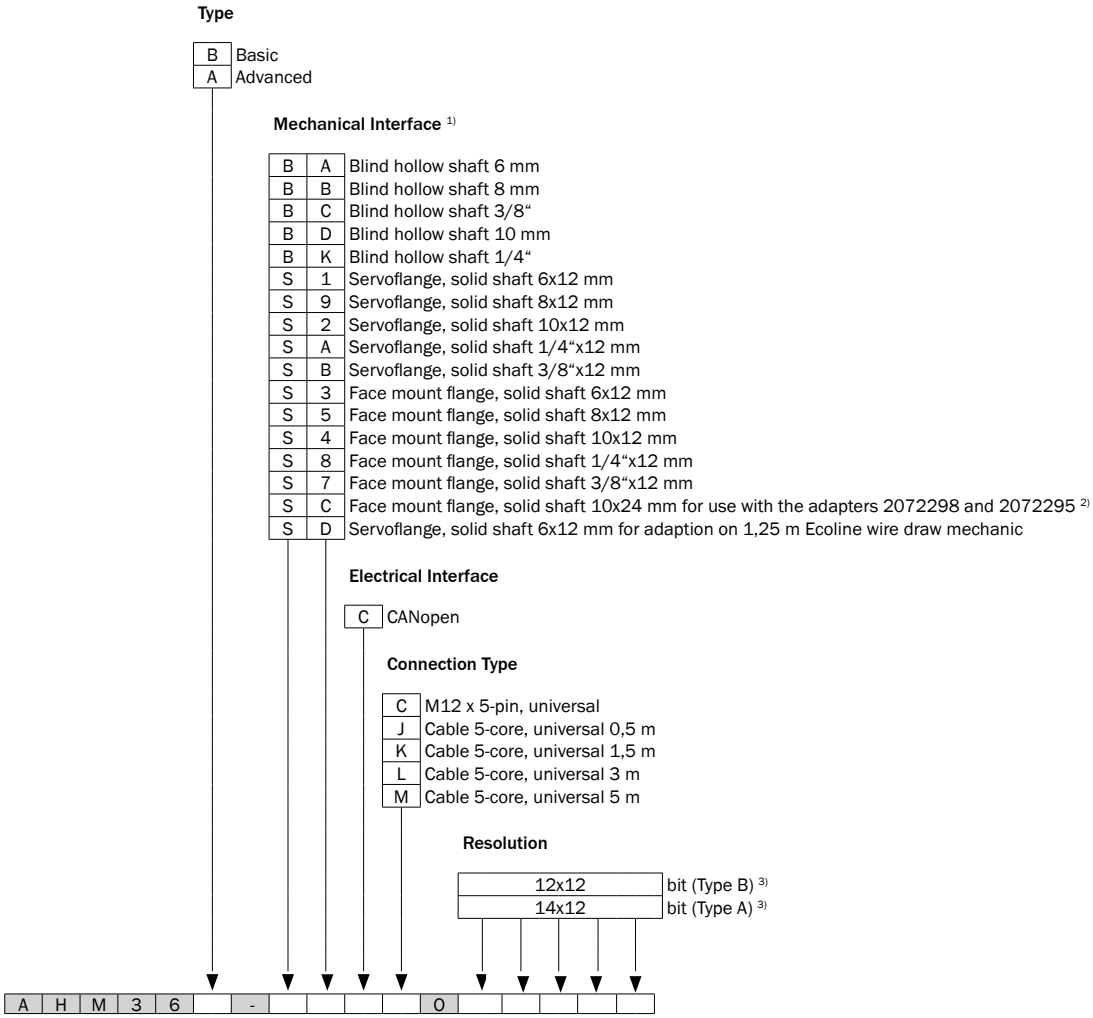


1) By using flange adapters, additional mechanical interfaces can be realized. See proposed fittings on page 17.

2) Permissible shaft load is lower than mentioned in technical data.

3) Number of steps per revolution is programmable via PLC.

Multiturn



1) By using flange adapters, additional mechanical interfaces can be realized. See proposed fittings on page 17.

2) Permissible shaft load is lower than mentioned in technical data.

3) Resolution is programmable via PLC

Ordering Information

Other device versions available at www.mysick.com/en/AHS_AHM36_CANopen

Absolute singleturn, solid shaft, servo flange

- **Electrical interface:** CANopen
- **Programmable:** ✔

Shaft diameter	Connection type	Number of steps	Resolution	Model name	Part no.
6 x 12 mm	Male connector M12, 5-pin, universal	≤ 4,096	4,096 x 1	AHS36B-S1CC004096	1066005
		≤ 16,384	16,384 x 1	AHS36A-S1CC016384	1066002
	Cable, 5-wire universal, 1.5 m	≤ 16,384	16,384 x 1	AHS36A-S1CK016384	1066001

Absolute multiturn, solid shaft, servo flange

- **Electrical interface:** CANopen
- **Programmable:** ✔

Shaft diameter	Connection type	Number of steps	Resolution	Model name	Part no.
6 x 12 mm	Male connector M12, 5-pin, universal	≤ 4,096	4,096 x 4,096	AHM36B-S1CC012x12	1065992
		≤ 16,384	16,384 x 4,096	AHM36A-S1CC014x12	1065993
	Cable, 5-wire universal, 1.5 m	≤ 16,384	16,384 x 4,096	AHM36A-S1CK014x12	1065994

Absolute singleturn, solid shaft, face mount flange

- **Electrical interface:** CANopen
- **Programmable:** ✔
- **Number of steps:** ≤ 16,384
- **Resolution:** 16,384 x 1

Shaft diameter	Connection type	Model name	Part no.
8 x 12 mm	Male connector M12, 5-pin, universal	AHS36A-S5CC016384	1067268

Absolute multiturn, solid shaft, face mount flange

- **Electrical interface:** CANopen
- **Programmable:** ✔
- **Number of steps:** ≤ 16,384
- **Resolution:** 16,384 x 4,096

Shaft diameter	Connection type	Model name	Part no.
6 x 12 mm	Male connector M12, 5-pin, universal	AHM36A-S3CC014x12	1065999
	Cable, 5-wire universal, 1.5 m	AHM36A-S3CK014x12	1066000

Absolute singleturn, blind hollow shaft

- **Electrical interface:** CANopen
- **Programmable:** ✔
- **Number of steps:** ≤ 16,384
- **Resolution:** 16,384 x 1

Shaft diameter	Connection type	Model name	Part no.
6 mm	Male connector M12, 5-pin, universal	AHS36A-BACC016384	1066004
	Cable, 5-wire universal, 1.5 m	AHS36A-BACK016384	1066003

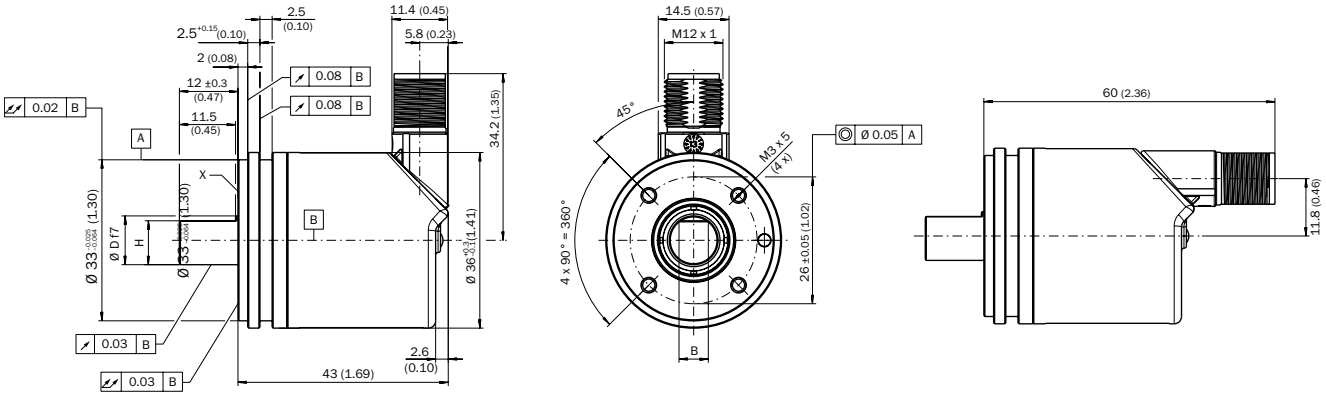
Absolute multiturn, blind hollow shaft

- **Electrical interface:** CANopen
- **Programmable:** ✔
- **Number of steps:** ≤ 16,384
- **Resolution:** 16,384 x 4,096

Shaft diameter	Connection type	Model name	Part no.
6 mm	Male connector M12, 5-pin, universal	AHM36A-BACC014x12	1065990
	Cable, 5-wire universal, 1.5 m	AHM36A-BACK014x12	1065991

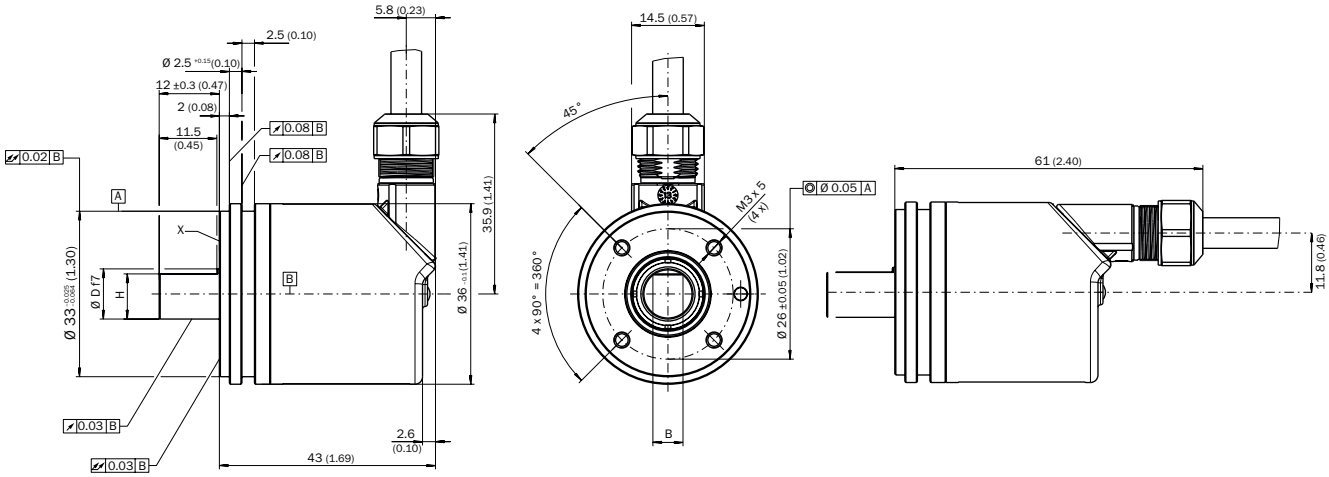
Dimensional drawings (dimensions in mm)

Solid shaft, servo flange, M12 male connector



X = Measuring point for operating temperature

Solid shaft, servo flange, cable output



X = Measuring point for operating temperature

bending radius: R= 30 mm

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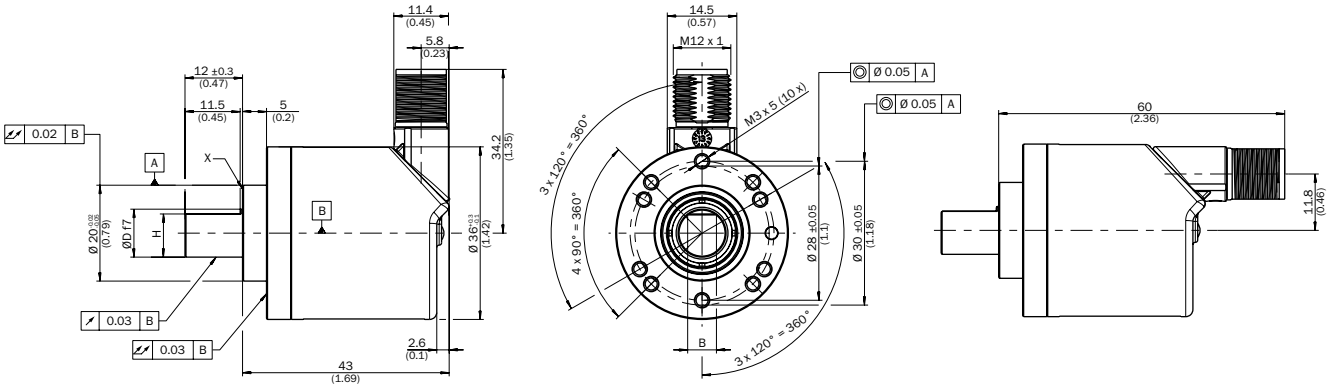
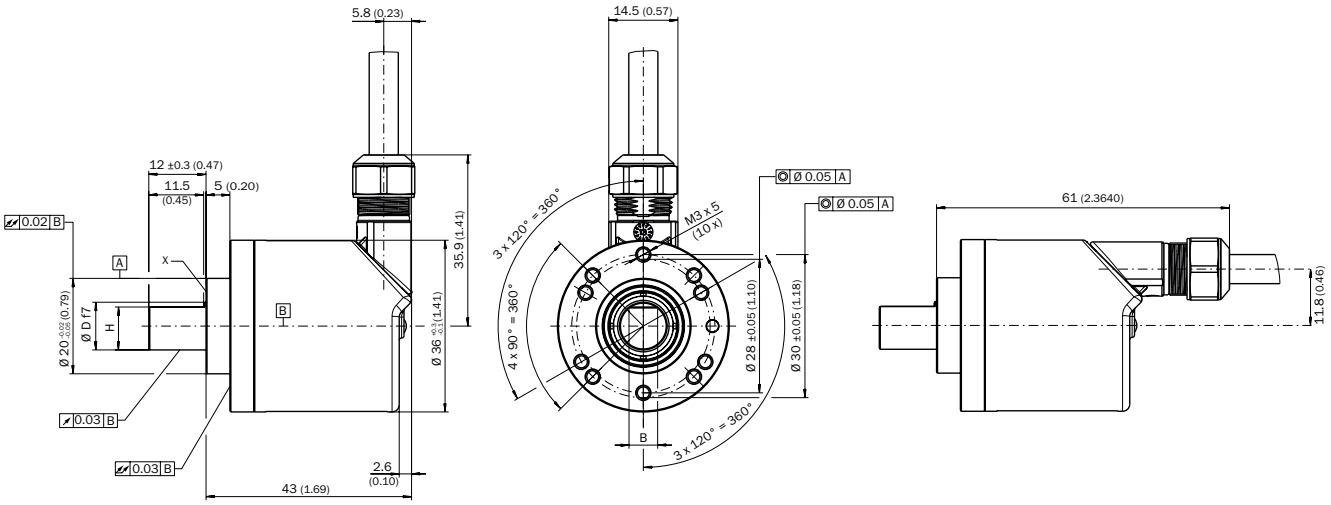
Solid shaft, face mount flange, M12 male connector



X = Measuring point for operating temperature

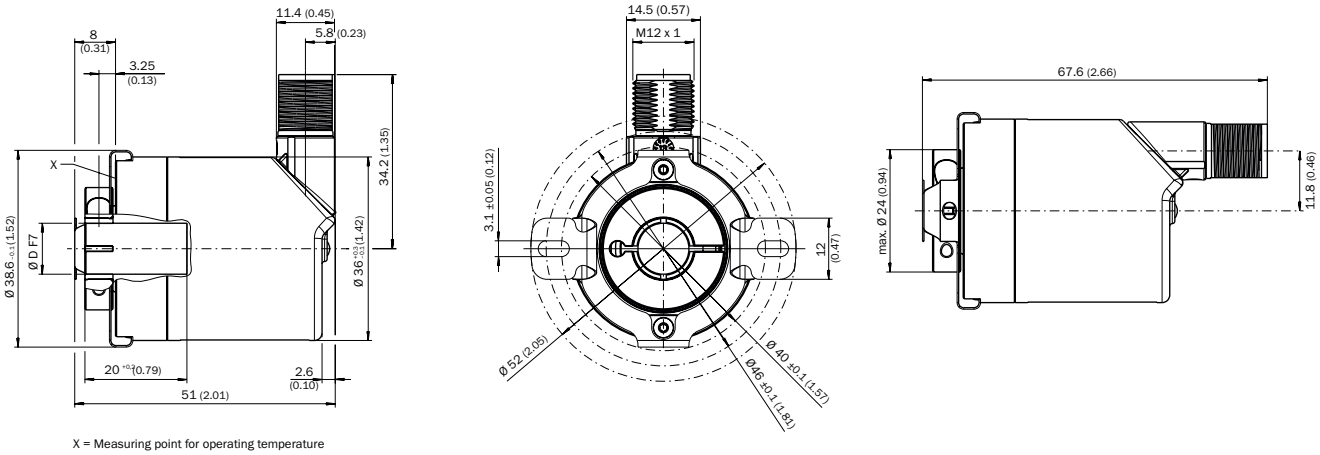
Solid shaft, face mount flange, cable output



X = Measuring point for operating temperature

bending radius: R= 30 mm

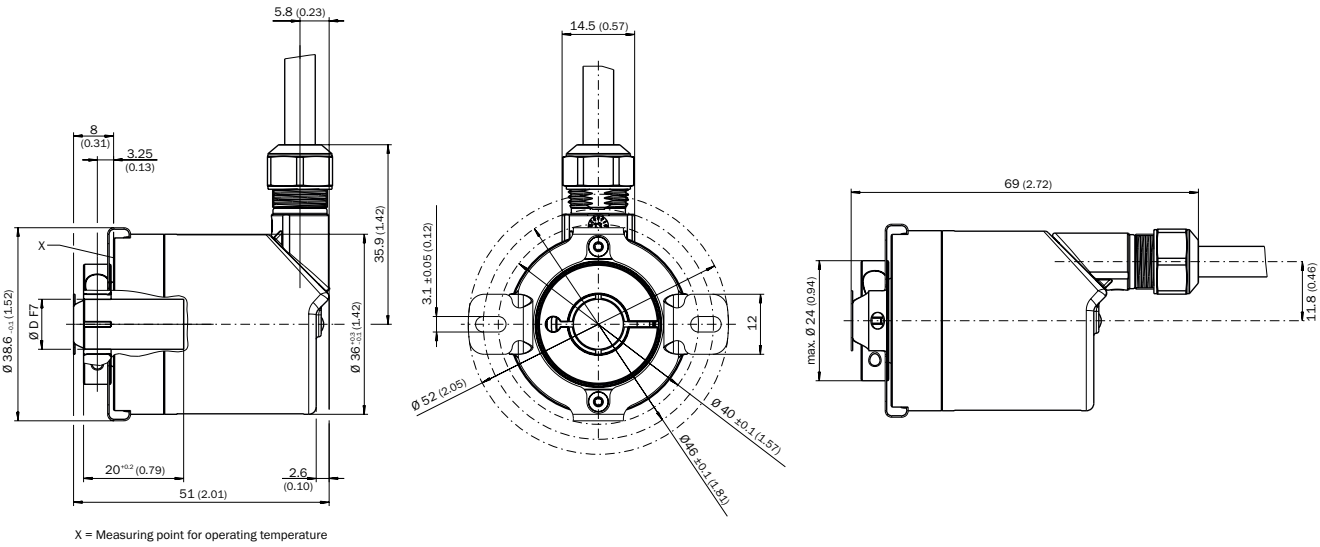
Blind hollow shaft, M12 male connector



X = Measuring point for operating temperature

Customer-side shaft: Insertion depth min.15 mm ... max 22 mm, from contact surface stator coupling, recommended shaft-fitting: k7

Blind hollow shaft, cable output



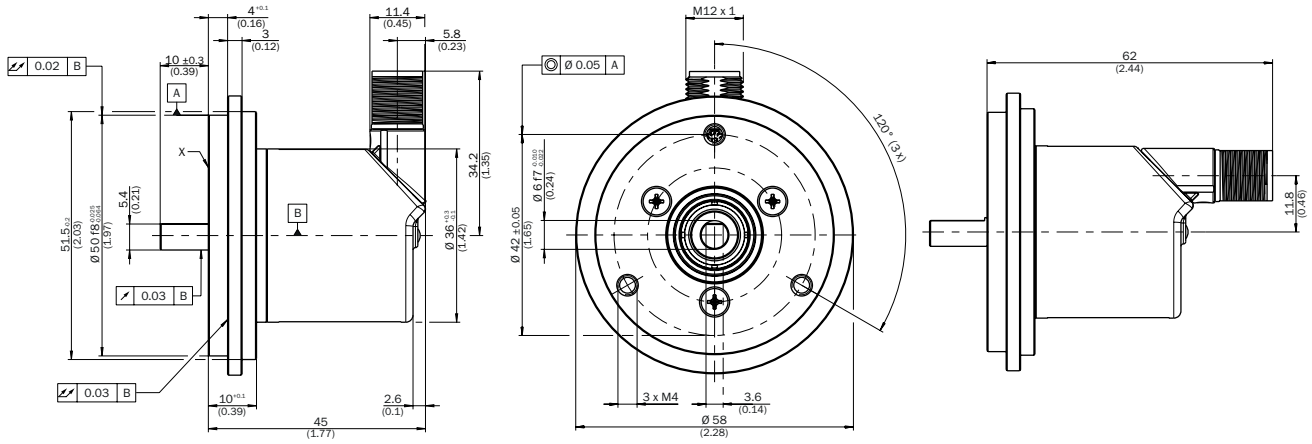
X = Measuring point for operating temperature

bending radius: R= 30 mm

Customer-side shaft: Insertion depth min.15 mm ... max 22 mm, from contact surface stator coupling, recommended shaft-fitting: k7

Proposed fitting

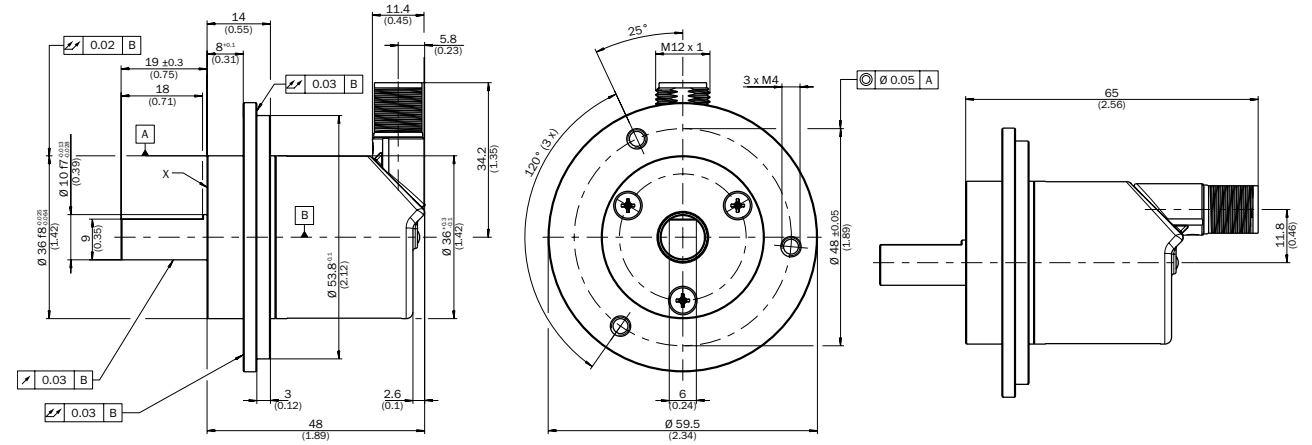
Solid shaft, face mount flange with flange adapter, centering collar D20 on D50 (BEF-FA-020-050, 2072297)



X = Measuring point for operating temperature

Ordering example for shaft diameter 6 mm: AHx36x-S3xx0xxxxx + BEF-FA-020-050 (adapter is not pre-mounted)

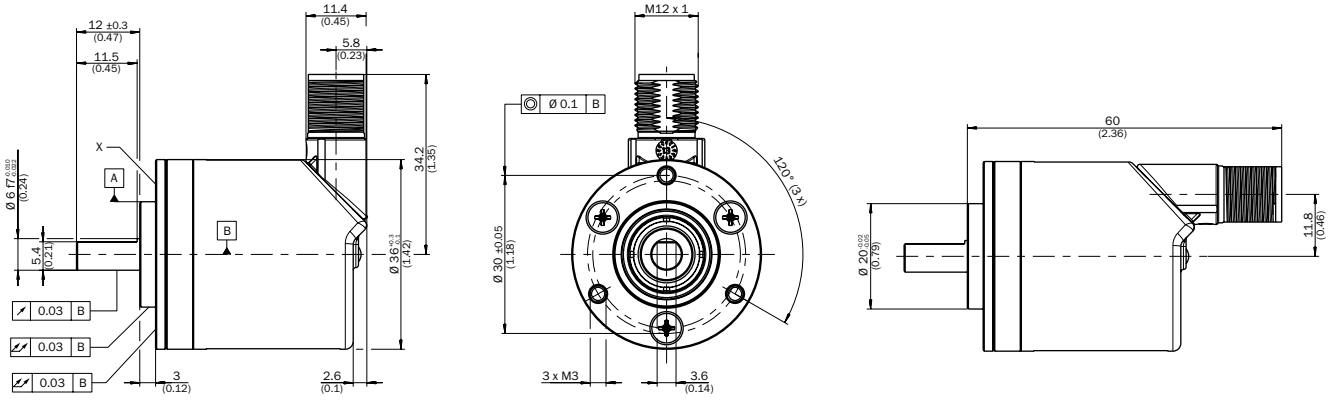
Solid shaft, face mount flange with flange adapter, centering collar D20 on D36 (BEF-FA-020-036, 2072298)



X = Measuring point for operating temperature

Ordering example for shaft diameter 10 mm: AHx36x-SCxx0xxxxx + BEF-FA-020-036 (adapter is not pre-mounted)

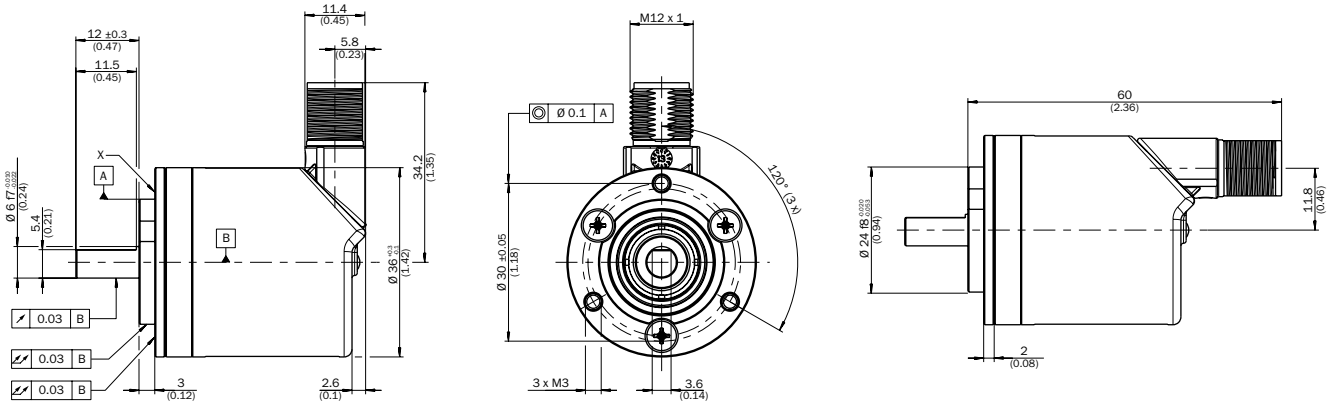
Solid shaft, face mount flange with flange adapter, centering collar D20 on D36, 2 mm high (BEF-FA-020-036-002, 2072296)



X = Measuring point for operating temperature

Ordering example for shaft diameter 6 mm: AHx36x-S3xx0xxxxx + BEF-FA-020-036-002 (adapter is not pre-mounted)

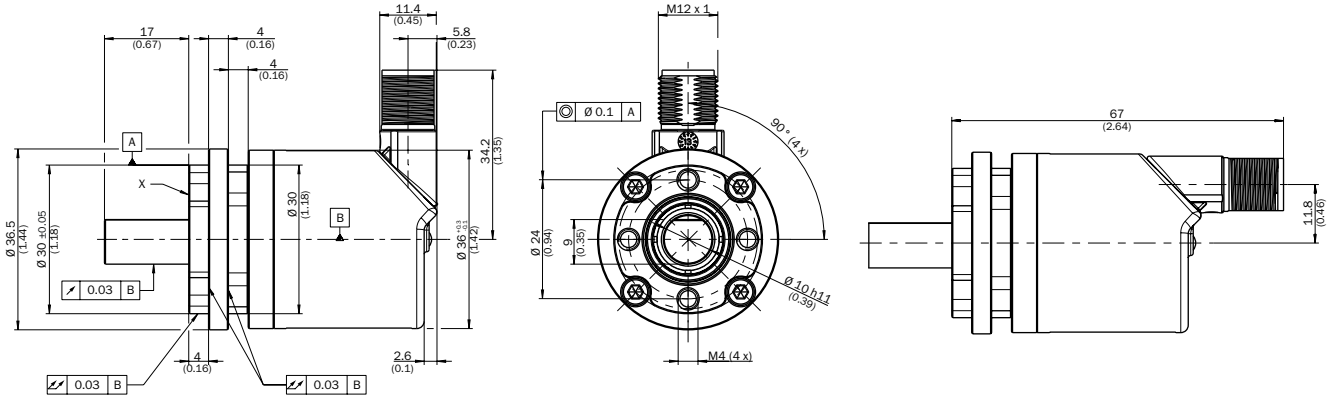
Solid shaft, face mount flange with flange adapter, centering collar D20 on D30 (BEF-FA-020-024, 2072294)



X = Measuring point for operating temperature

Ordering example for shaft diameter 6 mm: AHx36x-S3xx0xxxxx + BEF-FA-020-024 (adapter is not pre-mounted)

Solid shaft, face mount flange with flange adapter, centering collar D20 on D30 (BEF-FA-020-030, 2072295)

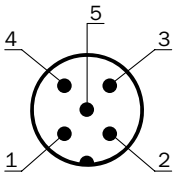


X = Measuring point for operating temperature

Ordering example for shaft diameter 10 mm: AHx36x-SCxx0xxxxx + BEF-FA-020-030 (adapter is not pre-mounted)

PIN assignment

Male connector M12 of the encoder



PIN	Signal	Wire color	Function
1	CAN shield	White	Screen
2	VDC	Red	Encoder supply voltage: 10 ... 30 V DC
3	GND / CAN GND	Blue	0 V (GND)
4	CAN high	Black	CAN signal
5	CAN low	Pink	CAN signal
Housing	-	-	Screen

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Accessories

Connection Technology

Adapters/distributors

Figure	Accessory family	Brief description	Model name	Part no.
	T-piece	CANopen, T-Connector	DSC-1205T000025KM0	6030664

Plug connectors and cables

Figure	Brief description	Note	Model name	Part no.
	Cable with female connector, M12, 5-pin, straight, CANopen, DeviceNet, 2 m	–	DOL-1205-G02MY	6053041
	Cable with female connector, M12, 5-pin, straight, CANopen, DeviceNet, 5 m	–	DOL-1205-G05MY	6053042
	Cable with female connector, M12, 5-pin, straight, CANopen, DeviceNet, 10 m	–	DOL-1205-G10MY	6053043
	Cable with male connector, M12, 5-pin, straight, female connector, M12, 5-pin, straight, CANopen, DeviceNet, 2 m	–	DSL-1205-G02MY	6053044
	Cable with male connector, M12, 5-pin, straight, female connector, M12, 5-pin, straight, CANopen, DeviceNet, 5 m	–	DSL-1205-G05MY	6053045
	Cable with male connector, M12, 5-pin, straight, female connector, M12, 5-pin, straight, 10 m	–	DSL-1205-G10MY	6053046
	Female connector, M12, 5-pin, straight, CANopen, DeviceNet, screened	–	DOS-1205-GA	6027534
	Male connector, M12, 5-pin, straight, -, CANopen, DeviceNet, screened	–	STE-1205-GA	6027533
	Male connector, M12, 5-pin, straight, -, DeviceNet, CANopen, DeviceNet Safety, screened	External busterminator	STE-1205-GKEND	6037193

Mounting systems

Mounting brackets/plates

Figure	Brief description	Model name	Part no.
	Mounting bracket, mounting kit for face mount flange included	BEF-WF-20	2066393

Flanges

Figure	Brief description	Model name	Part no.
	Stator coupling on hole circle 63 mm	BEF-DS08	2072206
	Flange adapter centering collar D20 on D24	BEF-FA-020-024	2072294
	Flange adapter centering collar D20 on D30	BEF-FA-020-030	2072295
	Flange adapter centering collar D20 on D36	BEF-FA-020-036	2072298
	Flange adapter centering collar D20 on D36, 2 m high	BEF-FA-020-036-002	2072296
	Flange adapter centering collar D20 on D50	BEF-FA-020-050	2072297

Other mounting accessories

Figure	Brief description	Model name	Part no.
	Measuring wheel, circumference 0.2 m, hole ø 6 mm, surface O-ring NBR70	BEF-MR006020R	2055222
	Measuring wheel, circumference 0.3 m, hole ø 6 mm, surface O-ring NBR70	BEF-MR006030R	2055634
	Replacement O-ring for measuring wheels (circumference 200 mm)	BEF-OR-053-040	2064061
	Replacement O-ring set for measuring wheels (circumference 300 mm)	BEF-OR-083-05	2064076
	Servo clamps, small, for servo flange (clamps, eccenter fastener), (3 pcs.), without fastening material	BEF-WK-RESOL	2039082

Shaft adaptation

Figure	Brief description	Model name	Part no.
	Bellows coupling, shaft diameter 6 mm/6 mm	KUP-0606-B	5312981
	Bellows coupling, shaft diameter 6 mm/10 mm	KUP-0610-B	5312982
	Bellows coupling, shaft diameter 10 mm/10 mm	KUP-1010-B	5312983
	Bellows coupling, shaft diameter 10 mm/12 mm	KUP-1012-B	5312984
	Double loop coupling, shaft diameter 6 mm/10 mm	KUP-0610-D	5326697
	Double loop coupling, shaft diameter 8 mm/10 mm	KUP-0810-D	5326704
	Double loop coupling, shaft diameter 10 mm/10 mm	KUP-1010-D	5326703
	Double loop coupling, shaft diameter 10 mm/12 mm	KUP-1012-D	5326702
	Spring disc coupling, shaft diameter 6 mm/10 mm	KUP-0610-F	5312985
	Spring disc coupling, shaft diameter 10 mm/10 mm	KUP-1010-F	5312986

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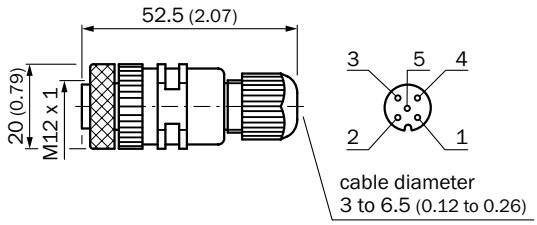
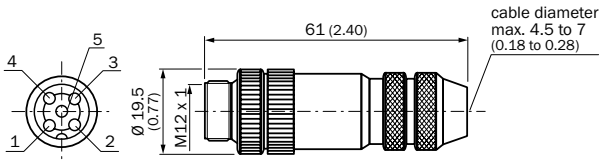
Dimensional drawings for connections, plug connectors and cables

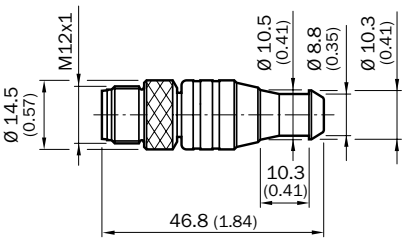
DOS-1205-GA



STE-1205-GA

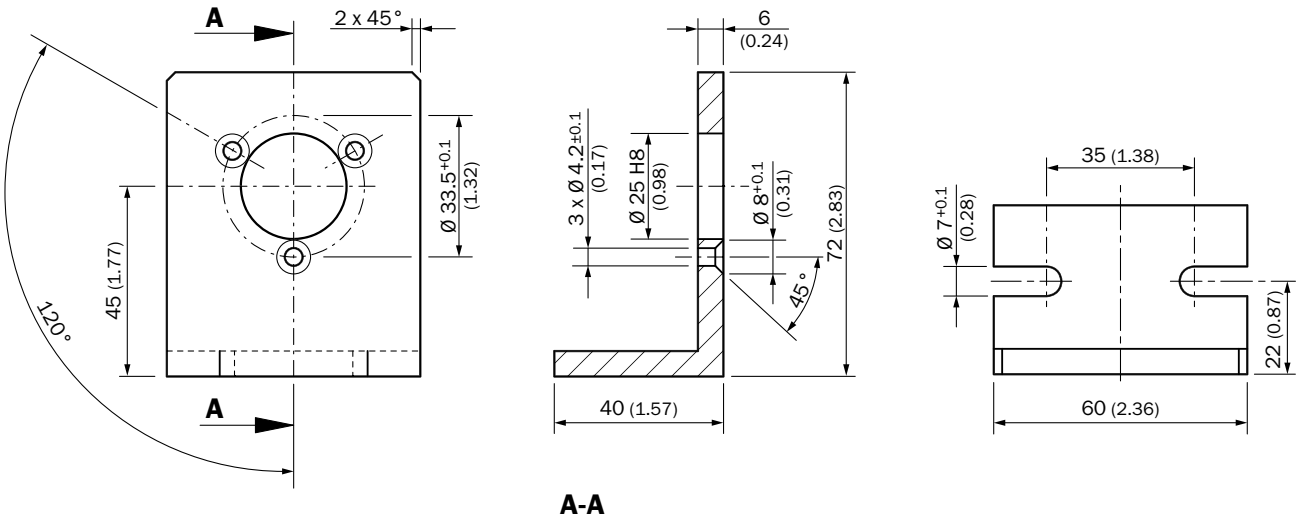


STE-1205-GKEND



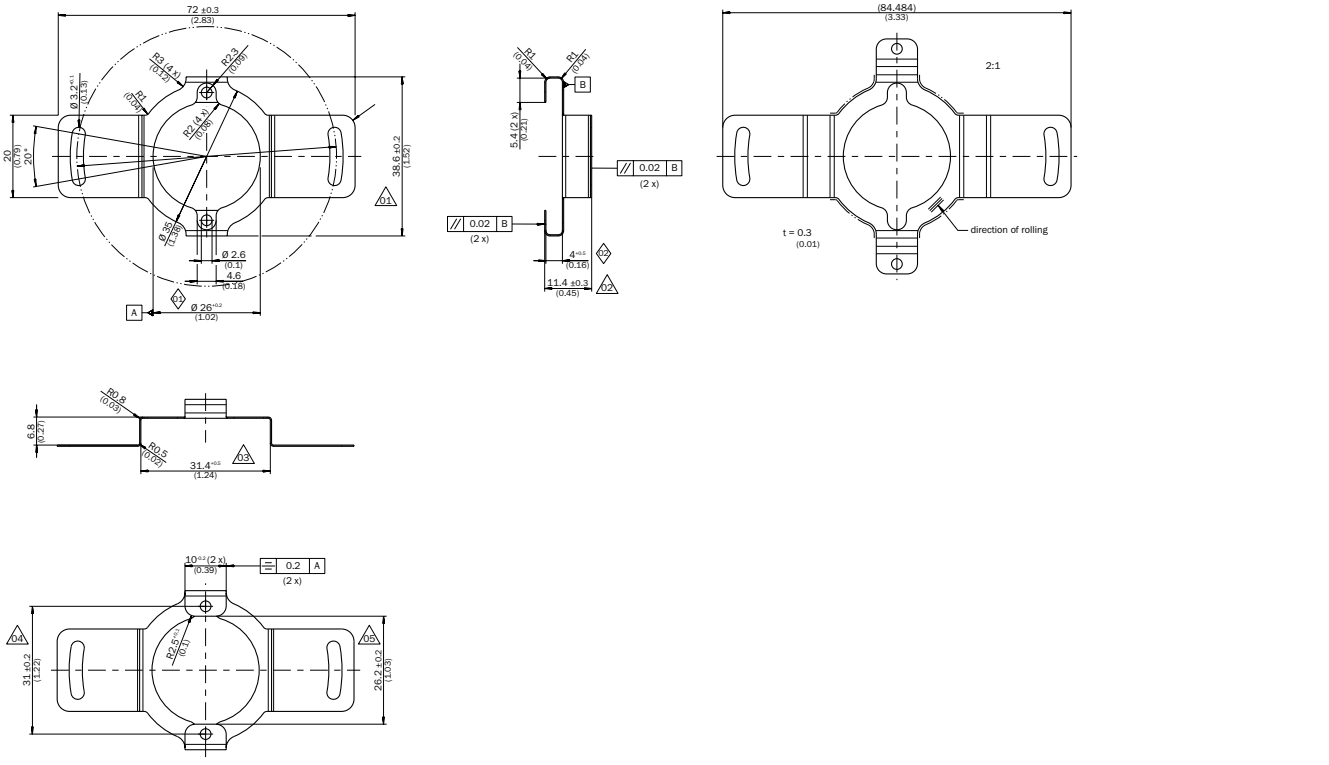
Dimensional drawings for mounting systems, mounting bracket/plates

BEF-WF-20

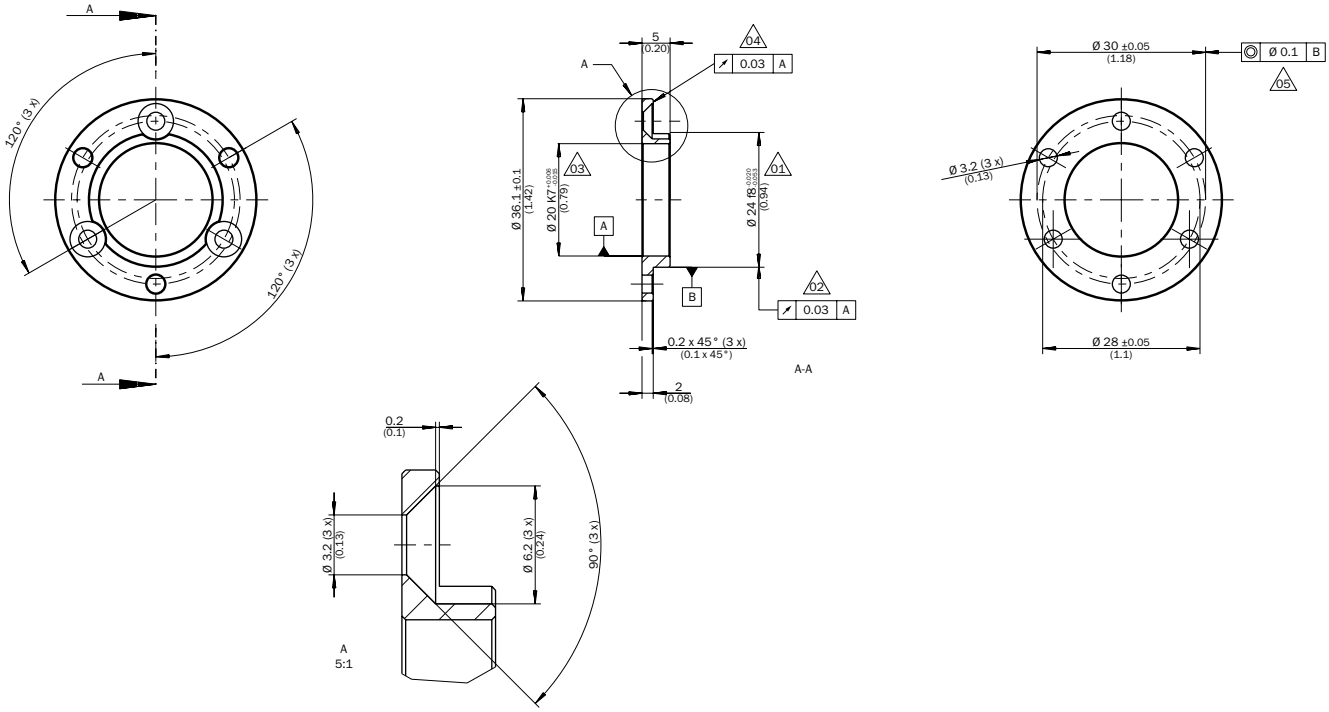


Dimensional drawings for mounting systems, flange

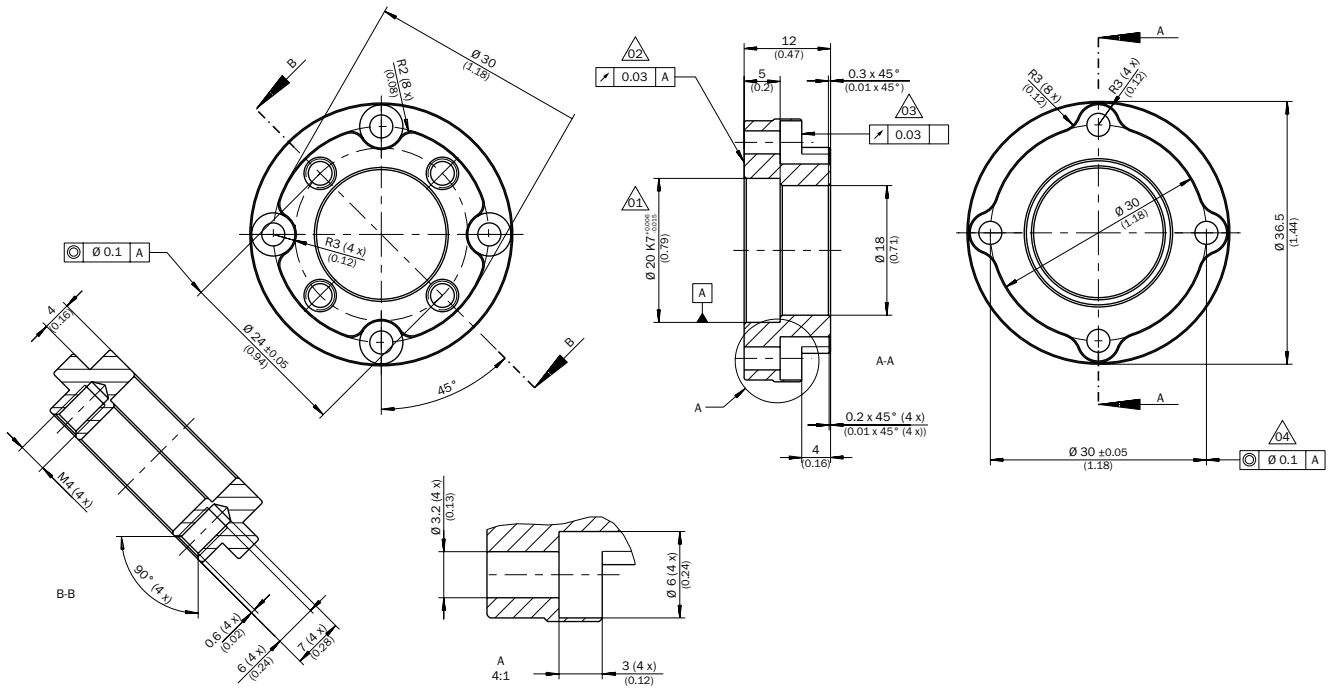
BEF-DS08



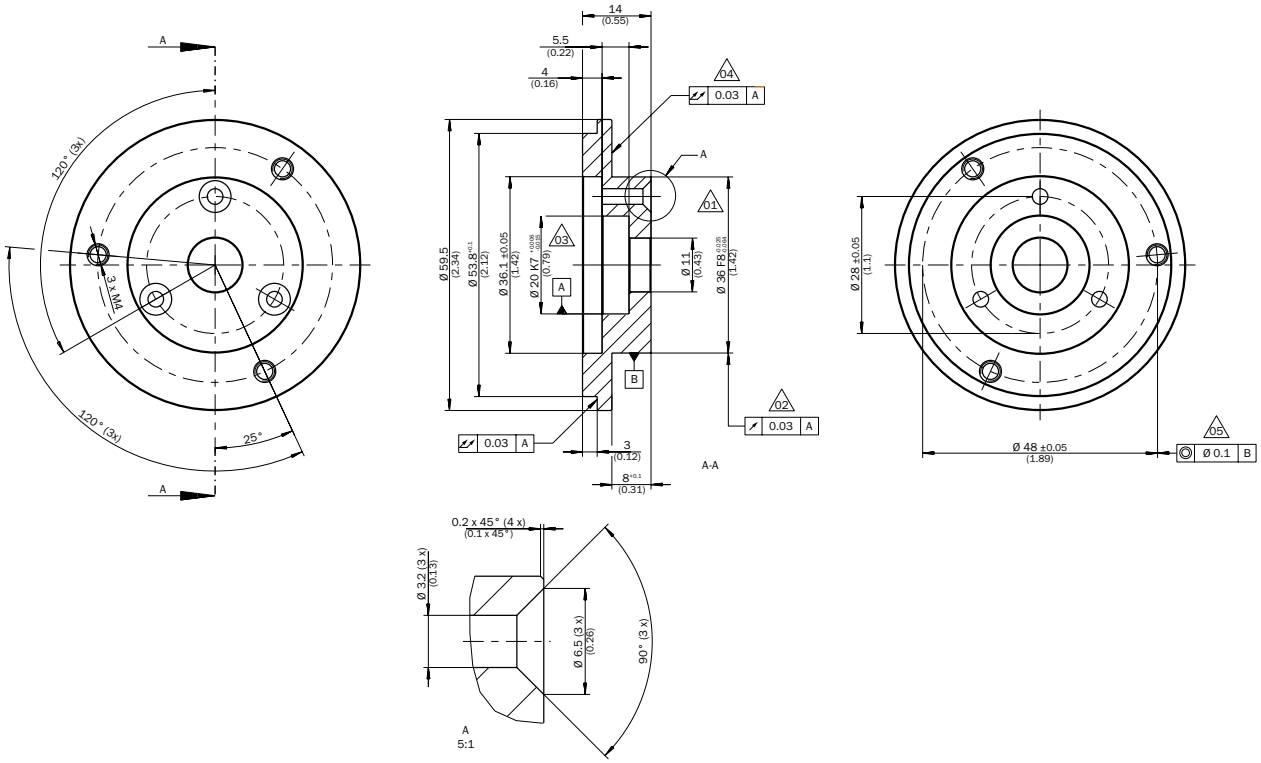
BEF-FA-020-024



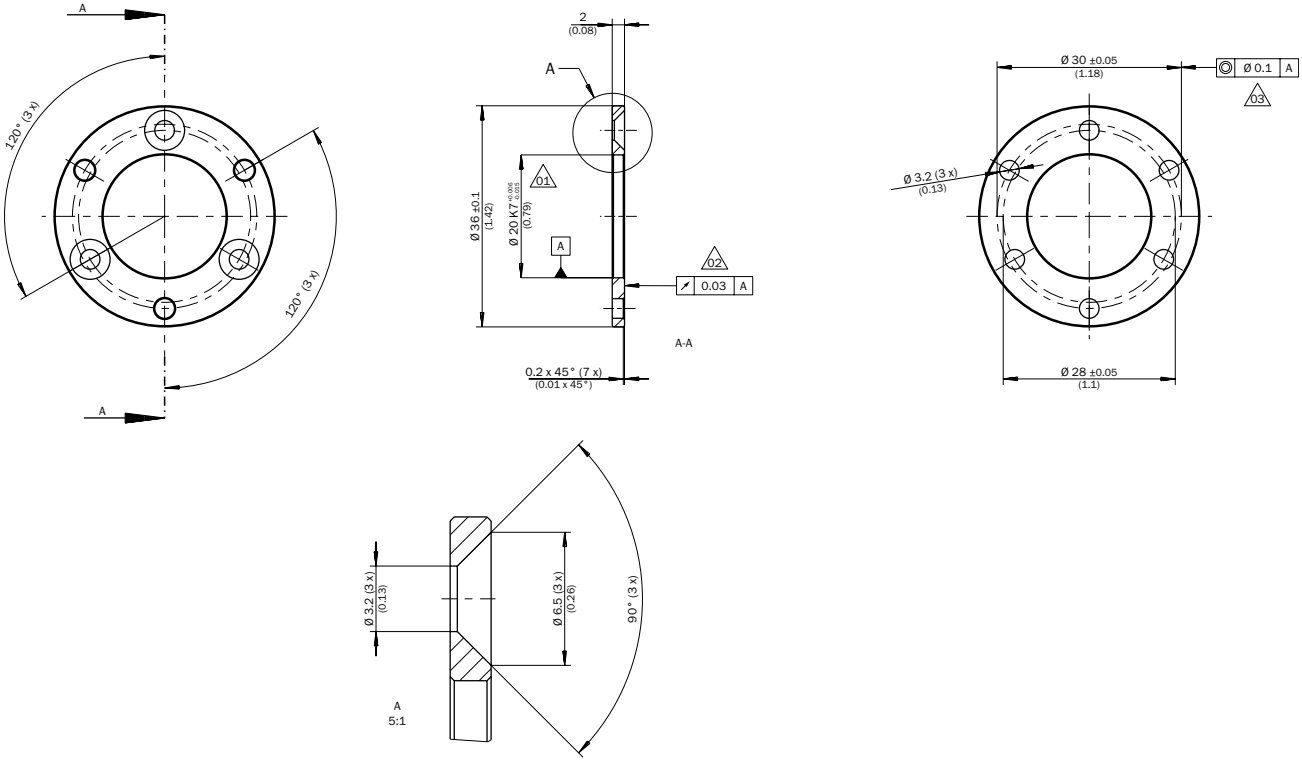
BEF-FA-020-030



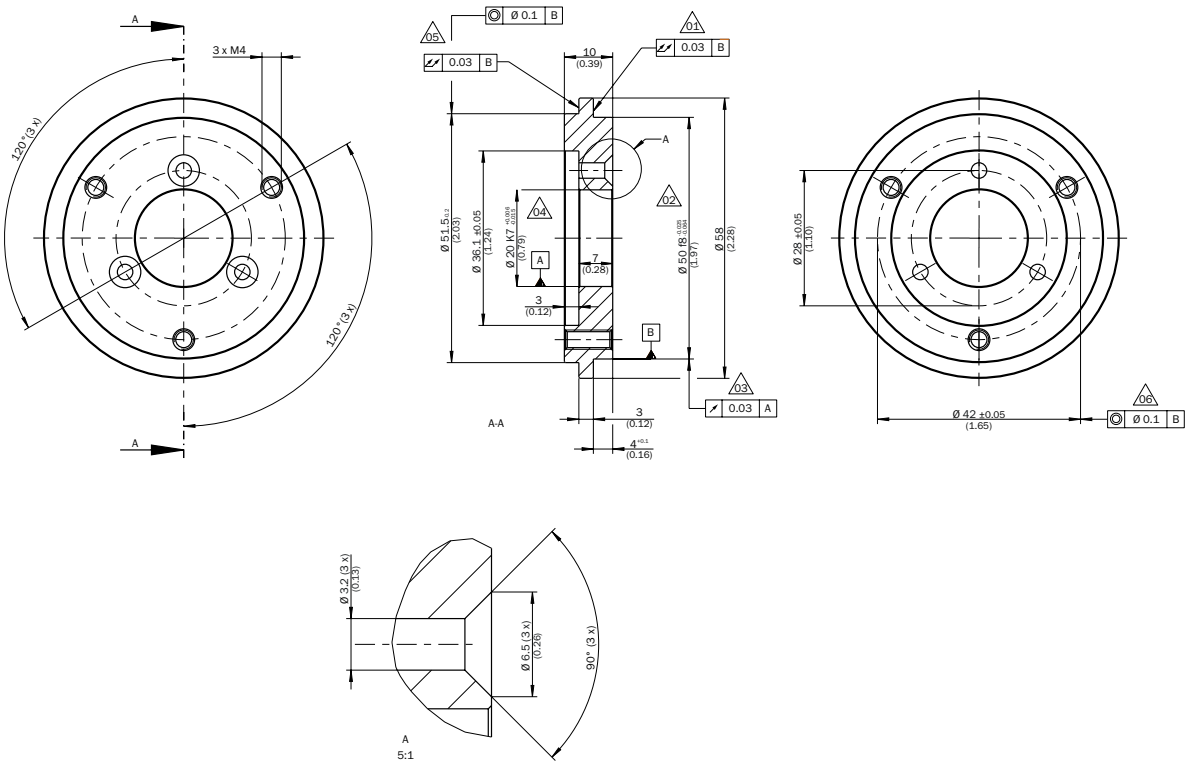
BEF-FA-020-036



BEF-FA-020-036-002

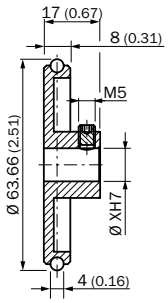


BEF-FA-020-050



Dimensional drawings for mounting systems, other mounting accessories

BEF-MR006020R



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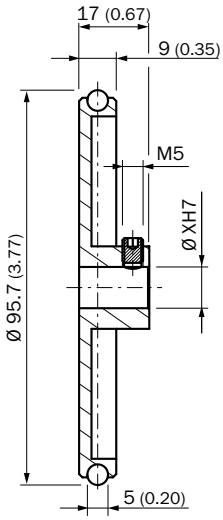
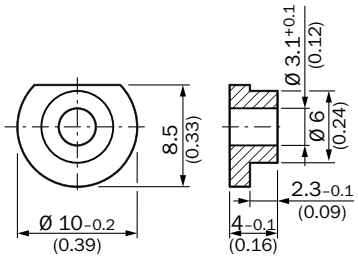


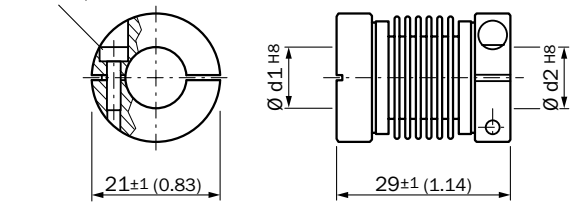
BEF-WK-RESOL



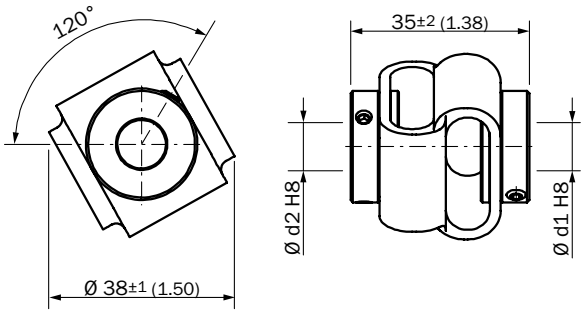
Dimensional drawings for mounting systems, shaft adaptation

KUP-0606-B
KUP-0610-B
KUP-1010-B
KUP-1012-B

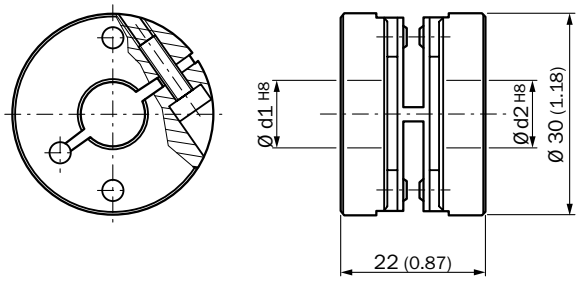
Cheese-head screw
M2.5 x 8, DIN 912 A2



KUP-0610-D
KUP-0810-D
KUP-1010-D
KUP-1012-D



KUP-0610-F
KUP-1010-F



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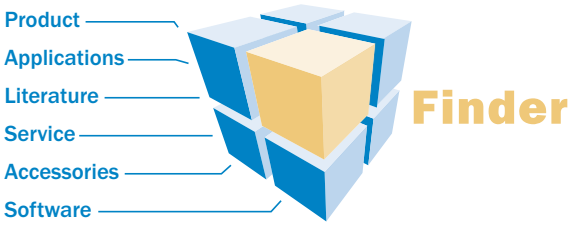

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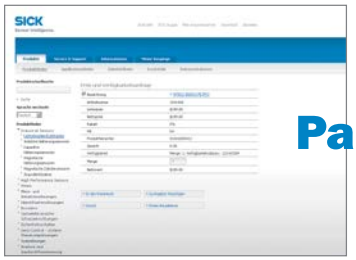

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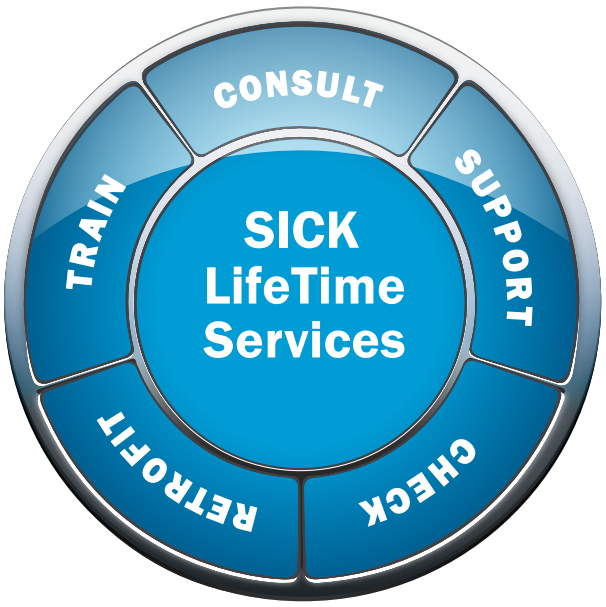

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