

# FLEXIBLE, SMART, COMPACT



## 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 rotating 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 encod-

ers into the CANopen network. The encoder also communicates diagnostic data such as temperature or operating time. Thanks to the large operating temperature range from  $-40\text{ °C}$  ...  $+85\text{ °C}$  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
- Rotating M12 male connector or rotating 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:  $-40\text{ °C}$  ...  $+85\text{ °C}$  (depending on the type)

## Your benefits

- Simple, time-saving mechanical installation due to a rotating male connector or 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



<sup>1)</sup> UL 508 compliant.

## More information

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## Fields of application

- Measures the absolute position in various industries, machines, and tools, including automated guided systems (AGS), industrial trucks, commercial vehicles, packaging machines, logistics applications, machine construction and medical technology

## Detailed technical data

### Performance

	Basic	Advanced
<b>Max. number of steps per revolution</b>	4,096 (12 bit)	16,384 (14 bit)
<b>Max. number of revolutions</b>		
Absolute singleturn	1	
Absolute multiturn	4,096 (12 bit)	
<b>Resolution<sup>1)</sup></b>		
Absolute singleturn	12 bit	14 bit
Absolute multiturn	12 bit x 12 bit	14 bit x 12 bit
<b>Error limits</b>	± 0.35° (at 20 °C)	
<b>Repeatability</b>	± 0.25° (at 20 °C)	± 0.2° (at 20 °C)
<b>Measuring increment (360°/number of steps per revolution)</b>	0.09°	0.022°
<b>Initialization time</b>	2 s <sup>2)</sup>	

<sup>1)</sup> Programmable options via control unit.

<sup>2)</sup> Position can be read after this period.

## Interfaces

	Basic	Advanced
<b>Electrical interface</b>	CANopen	
<b>Bus interface</b>	CANopen®	
<b>Encoder profile</b>	CANopen CiA DS-301, V4.02 CiA DSP-305 LSS Encoder Profile: - CiA DS-406, V3.2. - Class C2	
<b>Address setting</b>	0 ... 127, default: 5	
<b>Data transmission rate (baud rate)</b>	20 kbit/s ... 1,000 Mbit/s      factory setting: 125 kbit/s	
<b>PDO data</b>	Position, speed, temperature	
<b>Configuration data</b>	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)
<b>Available diagnostic data</b>	-	Current, 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
<b>Status information</b>	CANopen status via status LED	
<b>Bus termination</b>	Via external terminator <sup>1)</sup>	

<sup>1)</sup> See accessories.



Electrical data

	Basic	Advanced
<b>Connection type</b>	M12 male connector, 5-pin, universal Cable, 5-wire, universal, 0.5 m Cable, 5-wire, universal, 1.5 m Cable, 5-wire, universal, 3 m Cable, 5-wire, universal, 5 m	
<b>Max. power consumption (without load)</b>	1.5 W	
<b>Operating voltage range</b>	10 V DC ... 30 V DC	
<b>Reverse polarity protection</b>	✓	
<b>MTTFd: mean time to dangerous failure <sup>1)</sup></b>	270 years (EN ISO 13849-1)	

<sup>1)</sup> This product is a standard product and does not constitute a safety component as defined in the Machinery Directive. Calculation based on nominal load of devices, average ambient temperature 40 °C, frequency of use 8,760 h/a. All electronic failures are considered hazardous. For more information, see document no. 8015532.

Mechanical data

	Basic	Advanced
<b>Shaft diameter</b>	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	
<b>Start up torque</b>	Solid shaft 0.5 Ncm (at 20 °C) Blind hollow shaft 0.5 Ncm (at 20 °C)	1 Ncm (at +20 °C) 1 Ncm (at +20 °C)
<b>Operating torque</b>	Solid shaft < 0.5 Ncm (at 20 °C) Blind hollow shaft < 0.5 Ncm (at 20 °C)	< 1 Ncm (at 20 °C) < 1 Ncm (at 20 °C)
<b>Permissible shaft loading</b>	Solid shaft 40 N (radial) 20 N (axial)	
<b>Permissible shaft load, static dynamic</b>	Blind hollow shaft ± 0.3 mm/± 0.1 mm radial ± 0.3 mm/ ± 0.1 mm axial	
<b>Max. operating speed</b>	Singleturn 9,000 rpm <sup>1)</sup> Multiturn 6,000 rpm <sup>1)</sup>	6,000 rpm <sup>2), 3)</sup> 6,000 rpm <sup>2), 3)</sup>
<b>Bearing lifetime</b>	Solid shaft 3.6 x 10 <sup>8</sup> revolutions Blind hollow shaft 2.0 x 10 <sup>9</sup> revolutions	
<b>Shaft material</b>	Stainless steel	
<b>Flange material</b>	Aluminum	
<b>Housing material</b>	Zinc	

<sup>1)</sup> Take into account self-heating of 3.5 K per 1,000 revolutions/min when designing the operating temperature range.

<sup>2)</sup> Take into account self-heating of 5.5 K per 1,000 revolutions/min when designing the operating temperature range.

<sup>3)</sup> For Advanced type encoders, the shaft seal must be inspected regularly.



	Basic	Advanced
<b>Cable material</b>	PUR	
<b>Mass</b>		
Solid shaft	0.12 kg (related to devices with connector outlet)	
Blind hollow shaft	0.12 kg (related to devices with connector outlet)	
<b>Rotor moment of inertia</b>		
Solid shaft	2.5 gcm <sup>2</sup>	
Blind hollow shaft	15 gcm <sup>2</sup>	
<b>Max. angular acceleration</b>	≤ 500,000 rad/s <sup>2</sup>	

<sup>1)</sup> Take into account self-heating of 3.5 K per 1,000 revolutions/min when designing the operating temperature range.

<sup>2)</sup> Take into account self-heating of 5.5 K per 1,000 revolutions/min when designing the operating temperature range.

<sup>3)</sup> For Advanced type encoders, the shaft seal must be inspected regularly.

## Ambient data

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

<sup>1)</sup> In an assembled male connector.

<sup>2)</sup> For Advanced type encoders, the shaft seal must be inspected regularly.

## Type code

### Singleturn

#### Type

B	Basic
A	Advanced

#### Mechanical design <sup>1)</sup>

B	A	Blind hollow shaft, 6 mm
B	B	Blind hollow shaft, 8 mm
B	C	Blind hollow shaft, 3/8"
B	D	Blind hollow shaft, 10 mm
B	K	Blind hollow shaft, 1/4"
S	1	Solid shaft, servo flange, 6x12 mm
S	9	Solid shaft, servo flange, 8x12 mm
S	2	Solid shaft, servo flange, 10x12 mm
S	A	Solid shaft, servo flange, 1/4"x12 mm
S	B	Solid shaft, servo flange, 3/8"x12 mm
S	3	Solid shaft, face mount flange, 6x12 mm
S	5	Solid shaft, face mount flange, 8x12 mm
S	4	Solid shaft, face mount flange, 10x12 mm
S	8	Solid shaft, face mount flange, 1/4"x12 mm
S	7	Solid shaft, face mount flange, 3/8"x12 mm
S	C	Solid shaft, face mount flange, 10x24 mm, for use with the adapters 2072298 and 2072295 <sup>2)</sup>

#### Electrical interface

C	CANopen
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#### Connection type

C	M12 x 5-pin, universal
J	Cable, 5-wire, universal, 0.5 m
K	Cable, 5-wire, universal, 1.5 m
L	Cable, 5-wire, universal, 3 m
M	Cable, 5-wire, universal, 5 m

#### Resolution

04,096	Steps per revolution (type B) <sup>3)</sup>
16,384	Steps per revolution (type A) <sup>3)</sup>

A H S 3 6 - - - - - 0 - - - - -

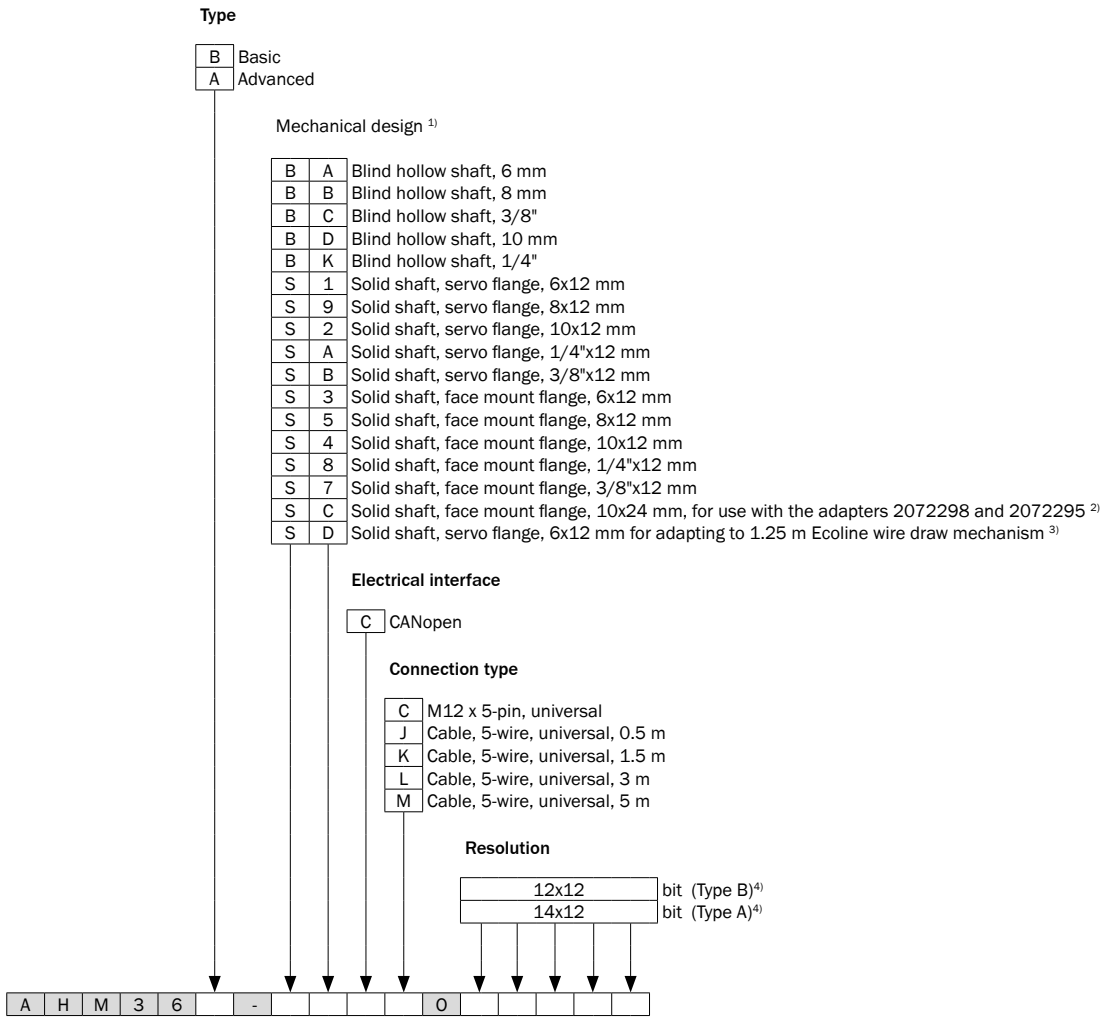
<sup>1)</sup> Flange adapters can be used for additional mechanical interfaces, see Mounting suggestions.

<sup>2)</sup> Permissible shaft load lower than figure list in technical data.

<sup>3)</sup> Number of steps programmable via control unit.

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Multiturn



<sup>1)</sup> Flange adapters can be used for additional mechanical interfaces, see Mounting suggestions.  
<sup>2)</sup> Permissible shaft load lower than figure list in technical data.  
<sup>3)</sup> Protection class on shaft side always IP 65.  
<sup>4)</sup> Programmable options for resolution via control unit.



Ordering information

Absolute singleturn, solid shaft, servo flange

- **Electrical interface:** CANopen
- **Programmable:** ✓

Shaft diameter	Connection type	Number of steps	Resolution	Type	Part no.
6 x 12 mm	M12 male connector, 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	Type	Part no.
6 x 12 mm	M12 male connector, 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	AH-M36A-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	Type	Part no.
8 x 12 mm	M12 male connector, 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	Type	Part no.
6 x 12 mm	M12 male connector, 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	Type	Part no.
6 mm	M12 male connector, 5-pin, universal	AHS36A-BACC016384	1066004
	Cable, 5-wire, universal, 1.5 m	AHS36A-BACK016384	1066003

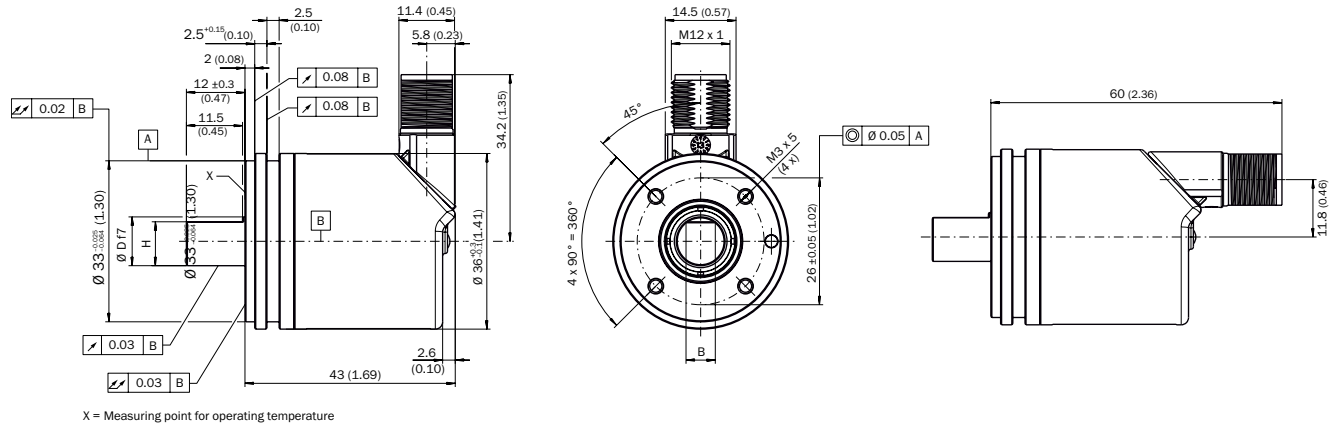
## Absolute multiturn, blind hollow shaft

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

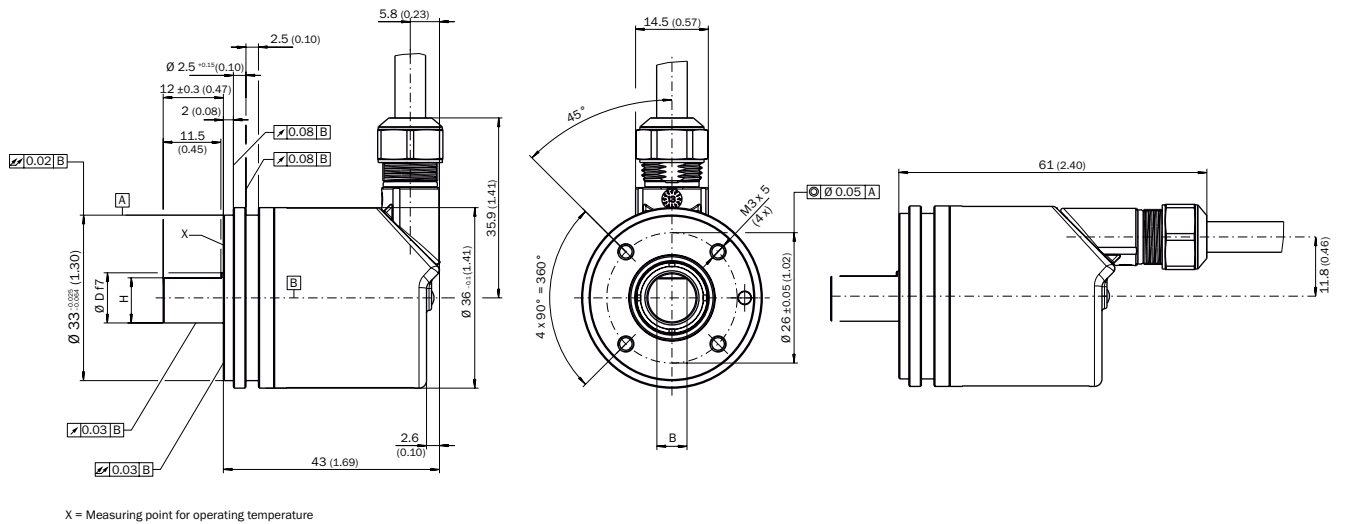
Shaft diameter	Connection type	Type	Part no.
6 mm	M12 male connector, 5-pin, universal	AHM36A-BACC014x12	1065990
	Cable, 5-wire, universal, 1.5 m	AHM36A-BACK014x12	1065991

Dimensional drawings (dimensions in mm)

Solid shaft, servo flange, M12 male connector



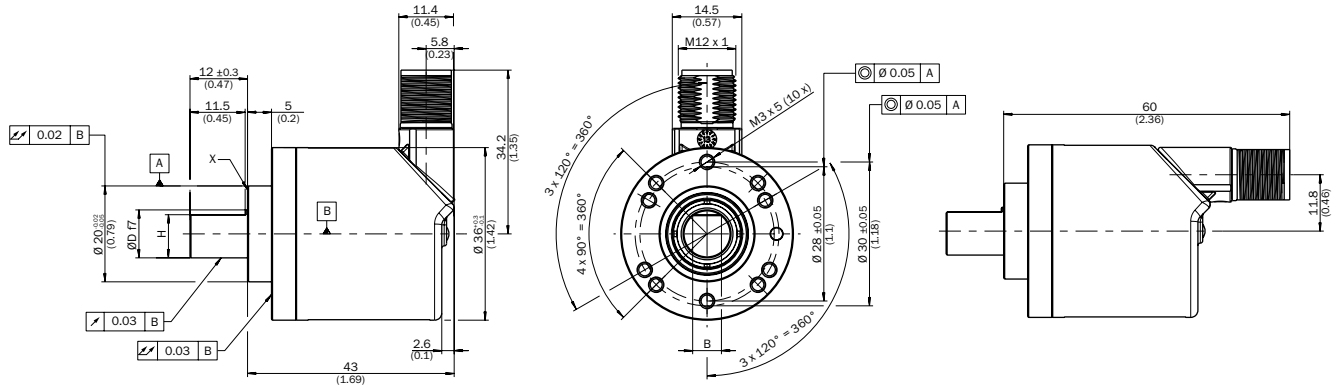
Solid shaft, servo flange, cable output



Bend radius of cable; R = 30 mm

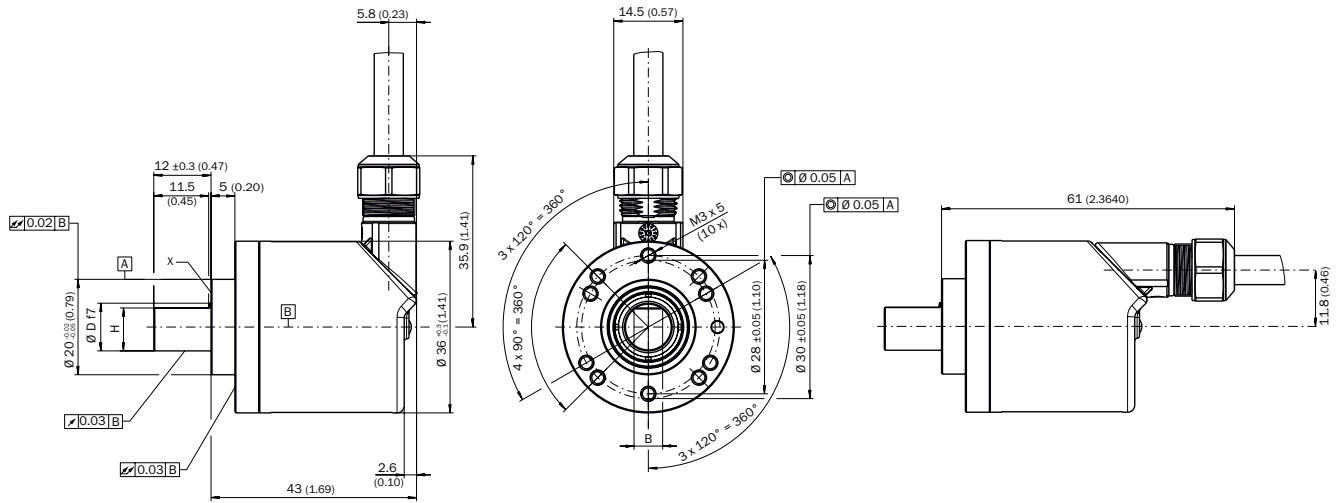
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Solid shaft, face mount flange, M12 male connector



X = Measuring point for operating temperature

Solid shaft, face mount flange, cable output

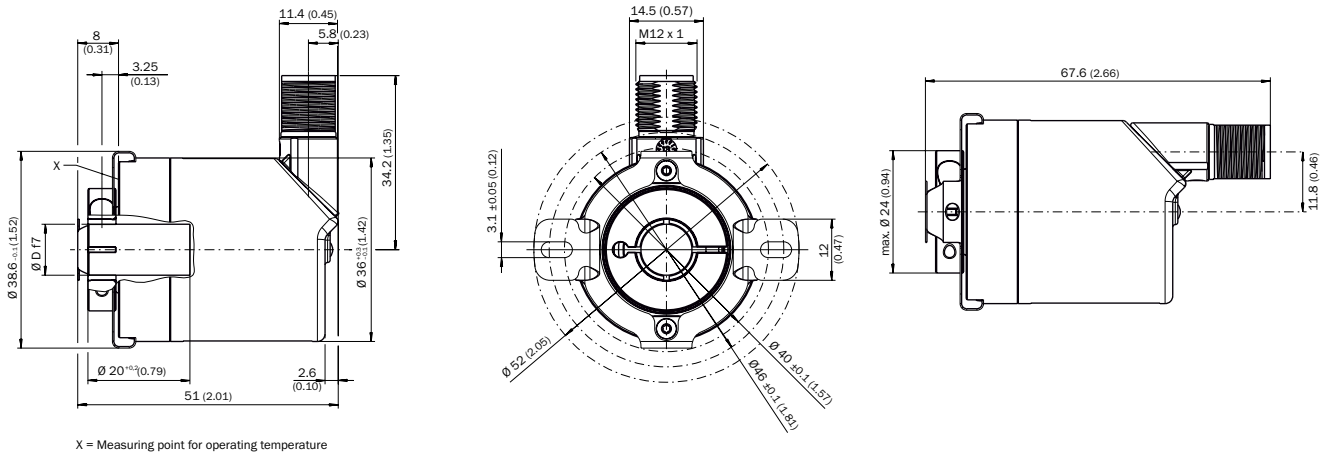


X = Measuring point for operating temperature

Bend radius of cable; R = 30 mm

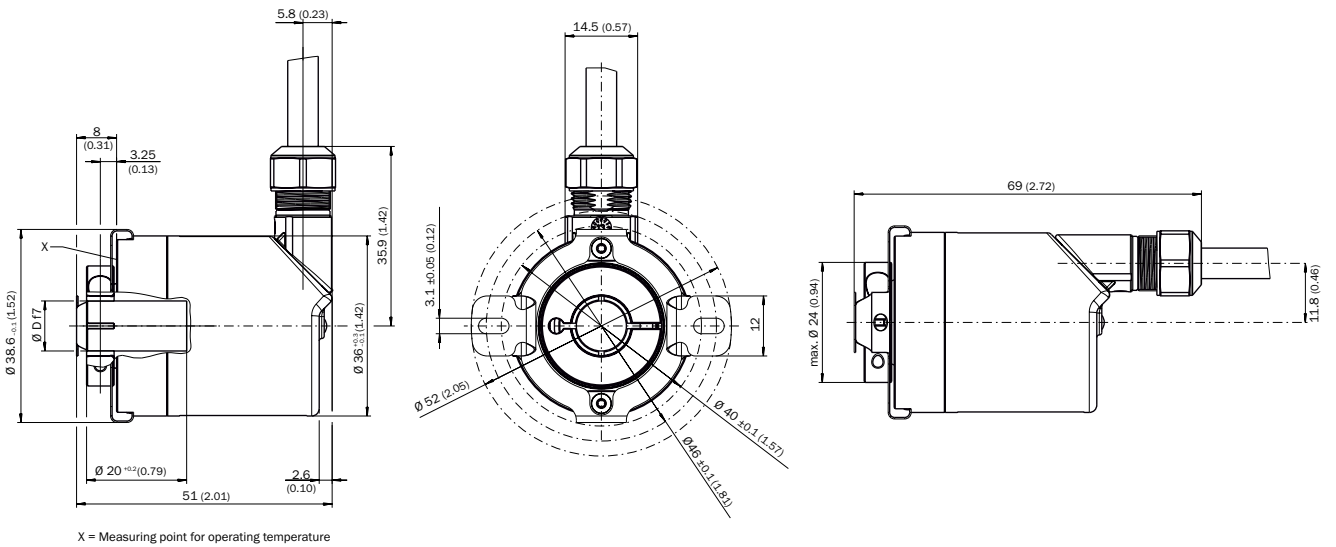


Blind hollow shaft, M12 male connector



Customer's own shaft: insertion depth of at least 15 mm to max. of 22 mm, from contact surface, from stator coupling, recommended shaft tolerance of k7

Blind hollow shaft, cable outlet



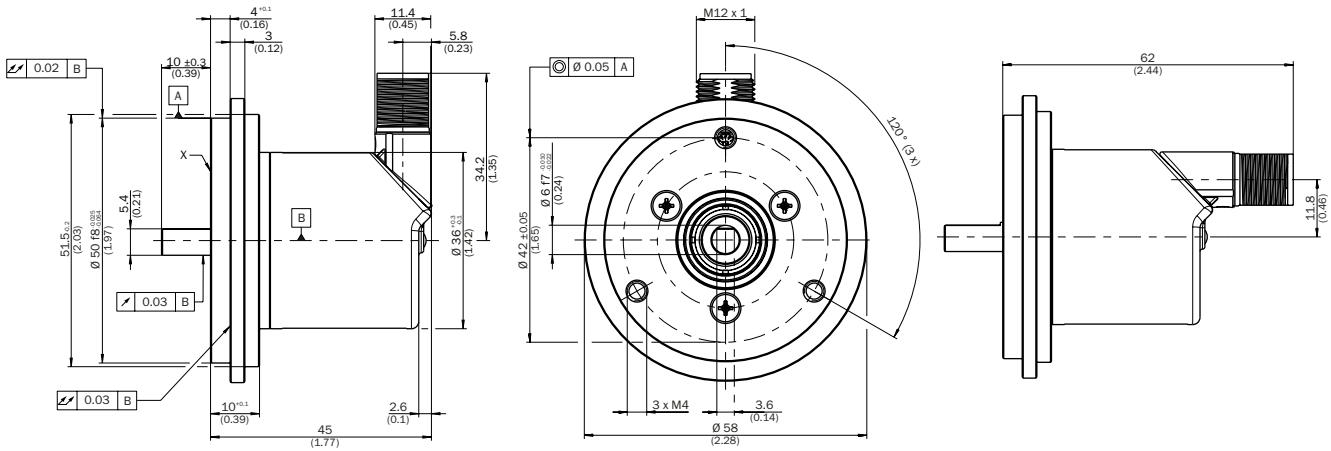
Bend radius of cable; R = 30 mm

Customer's own shaft: insertion depth of at least 15 mm to max. of 22 mm, from contact surface, from stator coupling, recommended shaft tolerance of k7

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Proposed fitting

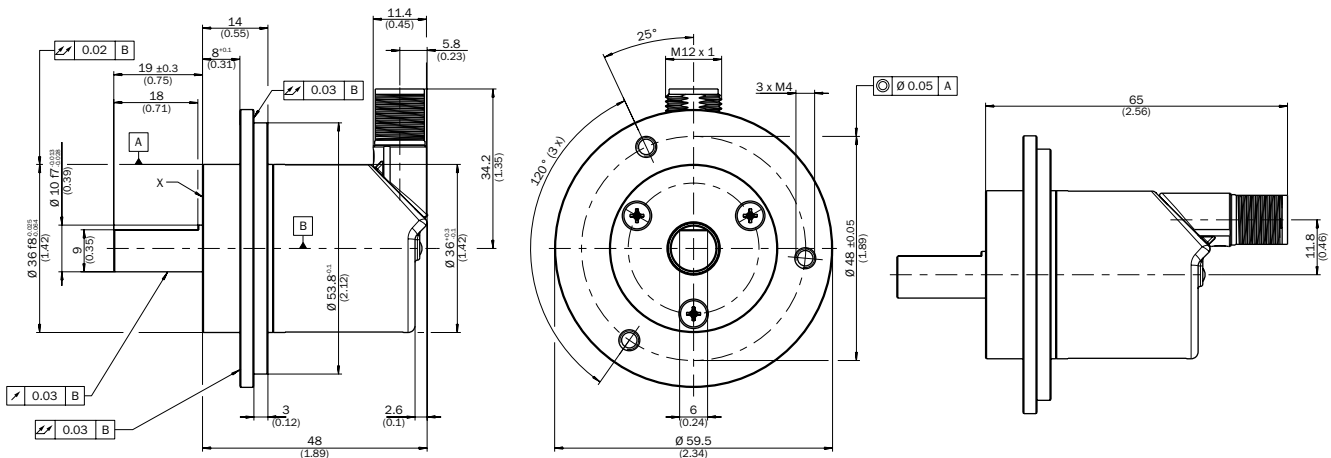
Solid shaft, face mount flange with flange adapter, centering hub D20 to D50 (BEF-FA-020-050, 2072297)



X = Measuring point for operating temperature

Sample order for 6 mm shaft diameter: AHx36x-S3xx0xxxx + BEF-FA-020-050 (adapter is not pre-assembled)

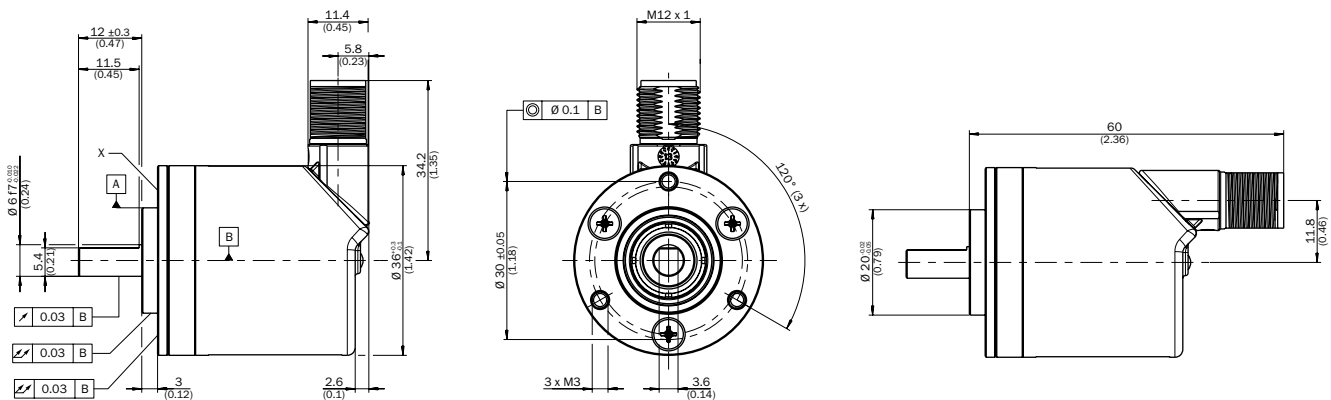
Solid shaft, face mount flange with flange adapter, centering hub D20 to D36 (BEF-FA-020-036, 2072298)



X = Measuring point for operating temperature

Sample order for 10 mm shaft diameter: AHx36x-SCxx0xxxx + BEF-FA-020-036 (adapter is not pre-assembled)

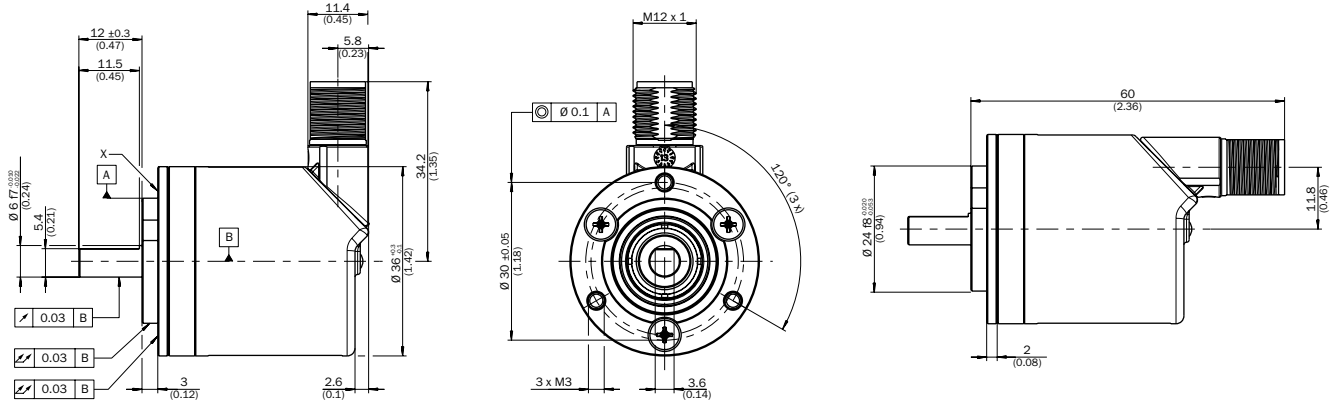
Solid shaft, face mount flange with flange adapter, centering hub D20 to D36, 2 mm high (BEF-FA-020-036-002, 2072296)



X = Measuring point for operating temperature

Sample order for 6 mm shaft diameter: AHx36x-S3xx0xxxx + BEF-FA-020-036-002 (adapter is not pre-assembled)

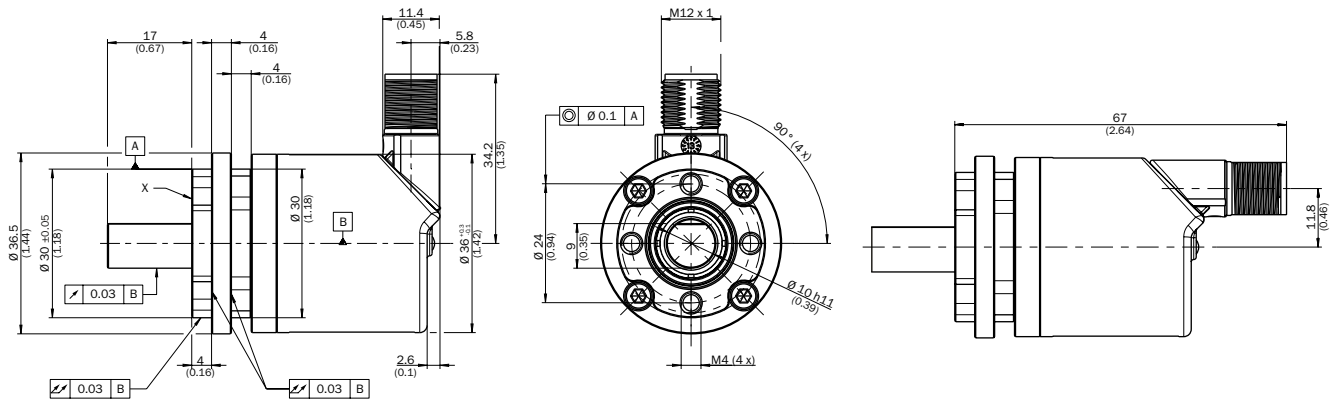
Solid shaft, face mount flange with flange adapter, centering hub D20 to D24 (BEF-FA-020-024, 2072294)



X = Measuring point for operating temperature

Sample order for 6 mm shaft diameter: AHx36x-S3xx0xxxx + BEF-FA-020-024 (adapter is not pre-assembled)

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

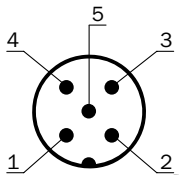


X = Measuring point for operating temperature

Sample order for 10 mm shaft diameter: AHx36x-SCxx0xxxx + BEF-FA-020-030 (adapter is not pre-assembled)

### PIN assignment

View of M12 male device connector on 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

## Recommended accessories

### Mounting systems

#### Mounting brackets and plates






##### Mounting bracket

Figure	Brief description	Type	Part no.
	Mounting bracket for encoder with centering hub 20 mm, including mounting kit for face mount flange	BEF-WF-20	2066393

Dimensional drawings → [page K-725](#)

##### Flanges


##### Flange plate

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

Dimensional drawings → [page K-725](#)

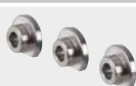
##### Other mounting accessories

##### Measuring wheels and measuring wheel systems

Figure	Brief description	Type	Part no.
	Measuring wheel with O-ring (NBR70) for 6 mm solid shaft, circumference 200 mm	BEF-MR006020R	2055222
	Measuring wheel with O-ring (NBR70) for 6 mm solid shaft, circumference 300 mm	BEF-MR006030R	2055634
	O-ring for measuring wheels (circumference 200 mm)	BEF-OR-053-040	2064061
	O-ring for measuring wheels (circumference 300 mm)	BEF-OR-083-050	2064076

Dimensional drawings → [page K-725](#)




##### Servo clamps

Figure	Brief description	Type	Part no.
	Servo clamps, small, for servo flange (clamps, eccentric fastener), 3 pcs., without mounting material	BEF-WK-RESOL	2039082

Dimensional drawings → [page K-725](#)

Shaft adaptation

Shaft couplings

Figure	Brief description	Type	Part no.
	Bellows coupling, shaft diameter 6 mm / 6 mm, maximum shaft offset: radial $\pm 0.25$ mm, axial $\pm 0.4$ mm, angular $\pm 4^\circ$ ; max. speed 10,000 rpm, $-30^\circ\text{C} \dots +120^\circ\text{C}$ , max. torque 80 Ncm; material: stainless steel bellows, aluminum hub	KUP-0606-B	5312981
	Bellows coupling, shaft diameter 6 mm / 10 mm, maximum shaft offset: radial $\pm 0.25$ mm, axial $\pm 0.4$ mm, angular $\pm 4^\circ$ ; max. speed 10,000 rpm, $-30^\circ\text{C} \dots +120^\circ\text{C}$ , max. torque 80 Ncm; material: stainless steel bellows, aluminum hub	KUP-0610-B	5312982
	Bellows coupling, shaft diameter 10 mm/10 mm; maximum shaft offset: radial $\pm 0.25$ mm, axial $\pm 0.4$ mm, angular $\pm 4^\circ$ ; max. revolutions 10,000 rpm, $-30^\circ\text{C} \dots +120^\circ\text{C}$ , max. torque 80 Ncm; material: stainless steel bellows, aluminum clamping hubs	KUP-1010-B	5312983
	Bellows coupling, shaft diameter 10 mm/12 mm; maximum shaft offset: radial $\pm 0.25$ mm, axial $\pm 0.4$ mm, angular $\pm 4^\circ$ ; max. revolutions 10,000 rpm, $-30^\circ\text{C} \dots +120^\circ\text{C}$ , max. torque 80 Ncm; material: stainless steel bellows, aluminum clamping hubs	KUP-1012-B	5312984
	Double-loop coupling, shaft diameter 6 mm/10 mm, maximum shaft offset: radial $\pm 2.5$ mm, axial $\pm 3$ mm, angular $\pm 10^\circ$ ; max. speed 3,000 rpm, $-30^\circ\text{C} \dots +80^\circ\text{C}$ , max. torque 1.5 Nm; material: polyurethane, galvanized steel flange	KUP-0610-D	5326697
	Double-loop coupling, shaft diameter 8 mm/10 mm, maximum shaft offset: radial $\pm 2.5$ mm, axial $\pm 3$ mm, angular $\pm 10^\circ$ ; max. speed 3,000 rpm, $-30^\circ\text{C} \dots +80^\circ\text{C}$ , max. torque 1.5 Nm; material: polyurethane, galvanized steel flange	KUP-0810-D	5326704
	Double-loop coupling, shaft diameter 10 mm/10 mm, maximum shaft offset: radial $\pm 2.5$ mm, axial $\pm 3$ mm, angular $\pm 10^\circ$ ; max. speed 3,000 rpm, $-30^\circ\text{C} \dots +80^\circ\text{C}$ , max. torque 1.5 Nm; material: polyurethane, galvanized steel flange	KUP-1010-D	5326703
	Double-loop coupling, shaft diameter 10 mm/12 mm, maximum shaft offset: radial $\pm 2.5$ mm, axial $\pm 3$ mm, angular $\pm 10^\circ$ ; max. speed 3,000 rpm, $-30^\circ\text{C} \dots +80^\circ\text{C}$ , max. torque 1.5 Nm; material: polyurethane, galvanized steel flange	KUP-1012-D	5326702
	Spring washer coupling, shaft diameter 6 mm/10 mm, maximum shaft offset: radial $\pm 0.3$ mm, axial $\pm 0.4$ mm, angular $\pm 2.5^\circ$ ; max. speed 12,000 rpm, $-10^\circ\text{C} \dots +80^\circ\text{C}$ , max. torque 60 Ncm; material: aluminum flange, fiber-glass reinforced polyamide membrane and tempered steel coupling pin	KUP-0610-F	5312985
	Spring washer coupling, shaft diameter 10 mm / 10 mm, maximum shaft offset: radial $\pm 0.3$ mm, axial $\pm 0.4$ mm, angular $\pm 2.5^\circ$ ; max. speed 12,000 rpm, $-10^\circ\text{C} \dots +80^\circ\text{C}$ , max. torque 60 Ncm; material: aluminum flange, glass fiber-reinforced polyamide membrane and hardened steel coupling pin	KUP-1010-F	5312986


Dimensional drawings → page K-725



## Connectivity

### Adapters and distributors


#### T-piece

Figure	Brief description	Type	Part no.
	CANopen, T-piece	DSC-1205T000025KM0	6030664

Dimensional drawings → [page K-725](#)

### Plug connectors and cables

#### Connecting cables with female connector

Figure	Brief description	Length of cable	Type	Part no.
	Head A: female connector, M12, 5-pin, straight Head B: cable Cable: suitable for drag chain, shielded, 2 x 0.34 mm <sup>2</sup> + 2 x 0.25 mm <sup>2</sup> + 1 x 0.34 mm <sup>2</sup> , Ø 6.7 mm A-coded	2 m	DOL-1205-G02MY	6053041
		5 m	DOL-1205-G05MY	6053042
		10 m	DOL-1205-G10MY	6053043


Dimensional drawings → [page K-725](#)

#### Connection cables with female and male connector

Figure	Brief description	Length of cable	Type	Part no.
	Head A: female connector, M12, 5-pin, straight Head B: male connector, M12, 5-pin, straight Cable: suitable for drag chain, PUR, halogen-free, shielded, 2 x 0.34 mm <sup>2</sup> + 2 x 0.25 mm <sup>2</sup> + 1 x 0.34 mm <sup>2</sup> , Ø 6.7 mm, A-coded	2 m	DSL-1205-G02MY	6053044
		5 m	DSL-1205-G05MY	6053045
		10 m	DSL-1205-G10MY	6053046


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#### Female connectors (ready to assemble)

Figure	Brief description	Type	Part no.
	Head A: female connector, M12, 5-pin, straight, shielded, for cable diameter 4.5 mm ... 7 mm Head B: -	DOS-1205-GA	6027534


Dimensional drawings → [page K-725](#)

#### Male connector (ready to assemble)

Figure	Brief description	Type	Part no.
	Head A: male connector, M12, 5-pin, straight, A encoded, shielded, for cable diameter 4 mm ... 8 mm Head B: -	STE-1205-GA	6027533

Dimensional drawings → [page K-725](#)

#### Other plug connectors and cables

Figure	Brief description	Type	Part no.
	Head A: male connector, M12, 5-pin, straight, shielded Cable: terminator	STE-1205-GKEND	6037193

Dimensional drawings → [page K-725](#)

→ For additional accessories, please see [page K-668 onwards](#)