

Взрывозащищенный абсолютный многооборотный энкодер АХ65 Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Ангарск (3955)60-70-56
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эл.почта: drx@nt-rt.ru || сайт: <https://dynapar.nt-rt.ru/>

SERIES AX65

HENGSTLER

Explosion Proof Absolute Multi-Turn Encoder

Key Features

- Explosion Proof Absolute
- 12 Bit of Singleturn, 12 or 16 Bit of True Multiturn Absolute Positioning
- ATEX and IECEX certification for Mining, Gas and Dust
- Extreme Corrosion Resistance: High Grade Stainless Steel Housing
- Protection class up IP66/ IP67
- CANopen or SSI Communications

HAZ
Hazardous Duty



Ex II 2G Ex db IIC T4 Gb
Ex II 2D Ex tb IIIC T135 °C Db
Ex I M2 Ex db I Mb

SPECIFICATIONS

STANDARD OPERATING CHARACTERISTICS:

Code: Absolute, Magnetic

Resolution Single-turn: 12 Bit

Resolution Multi-Turn (CANOpen Only):

12 Bit, 16 Bit

Absolute Accuracy: $\pm 1^\circ$

Repeatability: $\pm 0.2^\circ$

ELECTRICAL:

Interface: CANopen, SSI

Input Power: DC 10 -30V

Current w/o Load:

(CANOpen) 100mA typ.

(SSI) 200mA typ.

Recommended External Fuse: T 0.2 A

Power Consumption: Max. 2 W

Noise Immunity: Tested to EN61326-1

Electrical Immunity: Tested to EN61326-1

Termination (without cable gland):

Terminal box with 1 x M20X1.5 screw thread, axial or radial

Terminal box with 2 x M20X1.5 screw thread, radial

Mating Connector: Cable Exit

Interface: CANopen

Output Code: Binary

Protocol: CANopen according to DS 301 with profile DSP 406

Programmable: Resolution, Preset, Offset, Direction

Parametrization: Speed, Acceleration, Limit values, Operating time

Bus Termination Resistor:

Set via DIP switches

Interface: CANopen (Cont.)

Updating of Values: Every millisecond (adjustable), on request

Basic Identifier (11 Bit): Set via DIP switches or Software

Frequency Response (Baud Rate): Set via DIP switches in the range of 10 to 1.000 Kbit/s (standard setting EX-Works: 250 Kbit/s)

Max. Speed: at +60 °C Ambient temperature: 700 rpm, 6000 rpm (short term <1sec), at +40 °C Ambient temperature: 2200 rpm, 6000 rpm (short term <1sec)

Interface: SSI

Output Code: Gray or Binary

Drives: Clock and Data /RS422

Control Inputs 2: Preset, Direction

Max. Speed:

3000 rpm (6000 rpm short term <1sec)

SSI RECOMMENDED DATA TRANSFER RATE

The max. data transfer rate depends on the cable length. For Clock / Clock and Data / Data please use twisted pairs. Use shielded cable.

Cable Length	Frequency
<25m	< 800 kHz
<50m	< 400 kHz
<100m	< 300 kHz
<200m	< 200 kHz
<400m	< 100 kHz

MECHANICAL

Shaft Diameter: 10 mm (Solid shaft)

Shaft Material: Stainless Steel

Maximum Shaft Load Axial: 300 N axial

Maximum Shaft Load Radial: 300 N radial

Starting Torque: ≤ 4.5 Ncm typ.

Nominal Speed: 1500 rpm

Moment of inertia: approx. 25 gcm²

Housing Material: Stainless Steel

Weight: 2.86 lbs. (1300g) approx. without cable

ENVIRONMENTAL

Standard Ambient Temperature:

-40 °C ...+60 °C Ex db IIC T4 Gb

-40 °C ...+60 °C Ex tb IIIC Db / Ex db I Mb

Storage Temperature: -20 °C ...+85 °C

Shock (DIN EN 60068-2-27:2010):

2000m/s² (3ms)

Vibration (DIN EN 60068-2-6:2008): 300m/s² (50 ... 2000Hz)

Humidity: Up to 75%, (no condensation allowed)

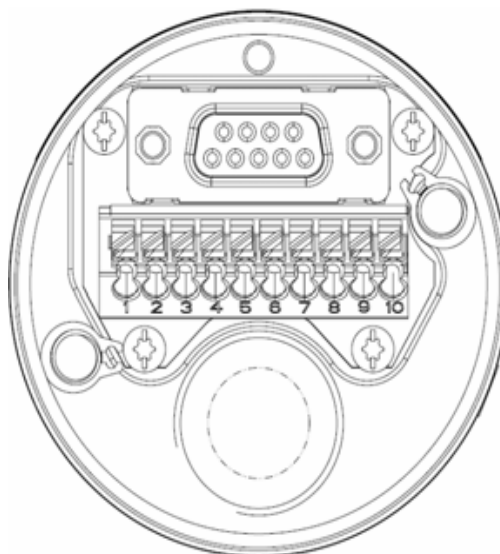
Enclosure Rating: IP66/67 (housing & Shaft)

HENGSTLER

SERIES AX65

WIRING - CANopen

Color / Printed Numbers	Terminal Block	Signal
White / 1	1	U in 10...30V DC
Brown / 2	2	0V(GND Power supply)
Green / 3	3	CAN in -
Yellow / 4	4	CAN in +
Grey / 5	5	CAN out -
Pink / 6	6	CAN out +
Blue / 7	7	GND in
Red / 8	8	GND out
	9	Not connected
	10	PE
Screen	Cable Screen Connected to Housing	
Terminal screw	For Additional Connection of an Earth Conductor	



WIRING - SSI

Color / Printed Numbers	Terminal Block	Signal
White / 1	1	U in 10...30V DC
Brown / 2	2	0V(GND Power supply)
Green / 3	3	Clock
Yellow / 4	4	Clock
Grey / 5	5	Data
Pink / 6	6	Data
Blue / 7	7	Direction
Red / 8	8	Preset (set to zero)
	9	Not connected
	10	PE
Screen	Cable Screen Connected to Housing	
Terminal screw	For Additional Connection of an Earth Conductor	

SERIES AX65



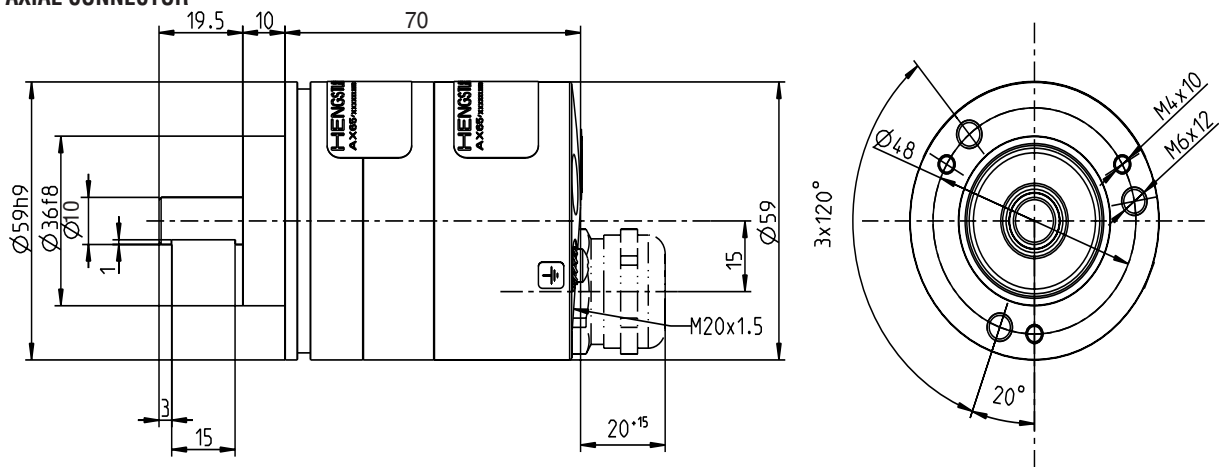
Ordering Information

To order, complete the model number with code numbers from the table below:

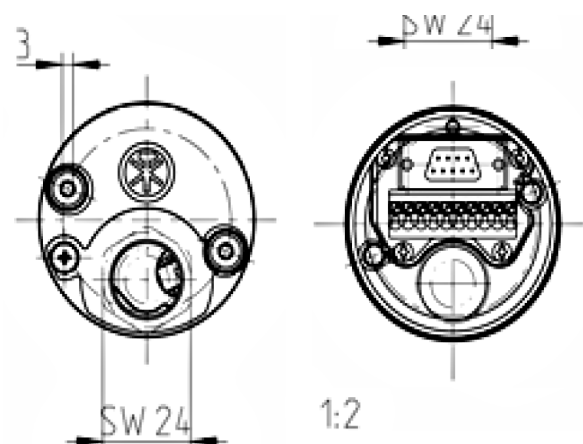
Code 1: Model	Code 2: Resolution	Code 3: Supply Voltage	Code 4: Flange, Protection, Shaft	Code 5: Interface	Code 6: Connection
Ordering Information					
AX65					
Series AX65 Hazardous Duty Absolute Encoder	0012 12 Bit ST Available only when Code 5 is OL 1212 12 Bit ST +12 Bit MT 1612 12 Bit ST +16 Bit MT	E 10-30VDC	L.72 Synchro-Clamping, IP66/ IP67, 10mm	SB SSI-Binary SG SSI-Gray OL CANopen	0 1 x M20x1.5 screw thread, axial 1 1 x M20x1.5 screw; thread, radial 2 2 x M20x1.5 screw; thread, radial

DIMENSIONS mm

AXIAL CONNECTOR



Recommended thread length of cable gland: 14mm

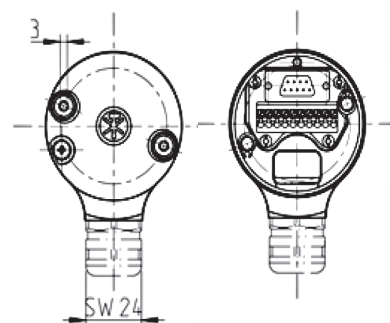
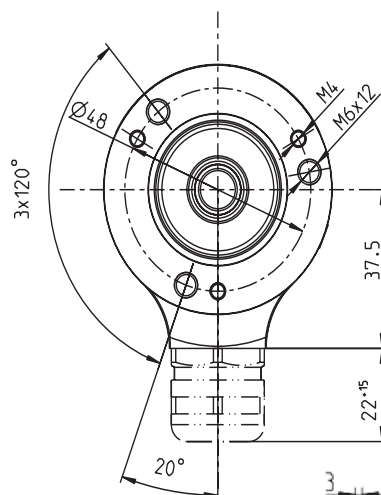
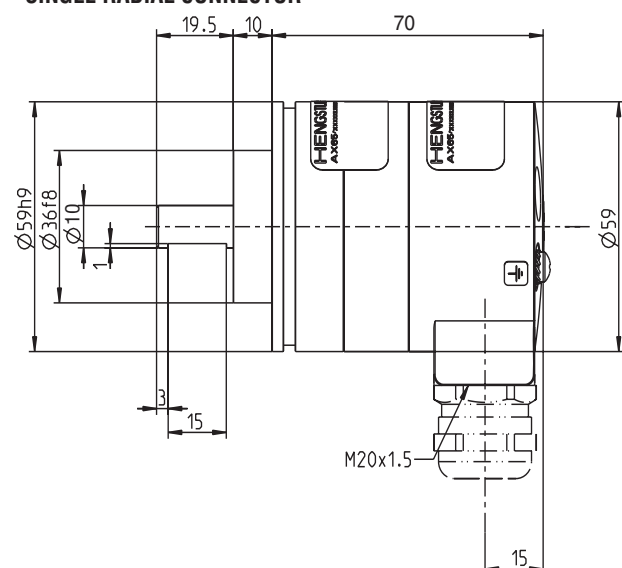


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SERIES AX65

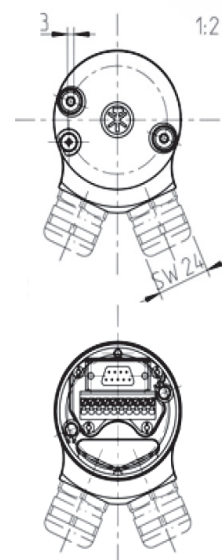
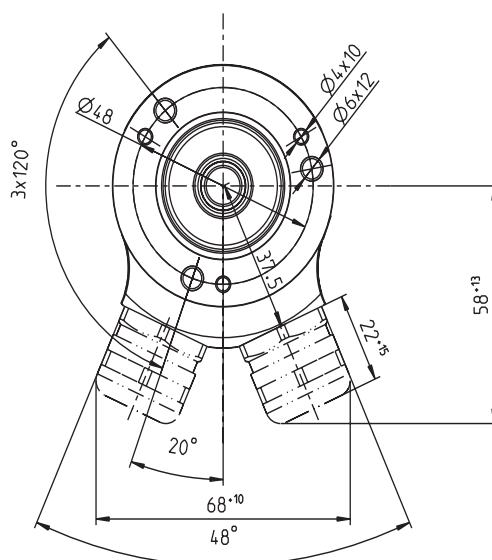
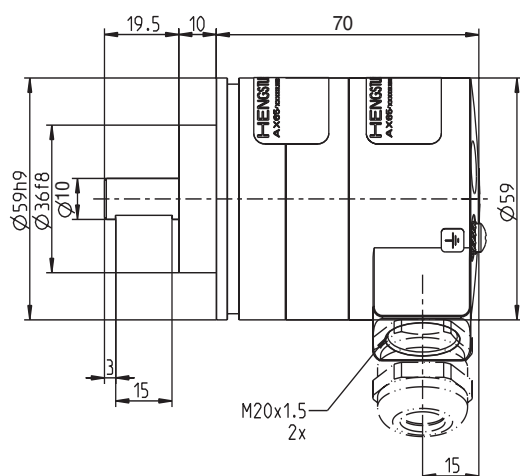
DIMENSIONS mm

SINGLE RADIAL CONNECTOR



Recommended thread length of cable gland: 14mm

DUAL RADIAL CONNECTOR



Recommended thread length of cable gland: 14mm

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