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KUEBLER - ABSOLUTE-CODED ANGULAR TRANSMITTER SENDIX 3651/3671, MAGNET-CODED, ANALOG, Ø36 MM

SERIE 3651

- Housing diameter Ø36 mm
- analog Output
- High shock resistance
- Degree of protection IP67 / IP69K

PRODUCT DESCRIPTION

Sendix 3651/3671 is a series of single-wave magnet-coded absolute transducers that are available in both shaft and hole axes with analog interface. Thanks to the contactless technology, the sensor is very compact and robust. As this technology allows for complete encapsulation of the sensor part on the sensor, a high enclosure class (IP69K on request), shock resistance and a wide temperature range can be achieved. The sensor is therefore very suitable for applications where extreme environments or temperatures can occur, such as mobile applications. It comes with either M12 or PUR cable as standard. Sendix 3651/3671 is also available in a salt water resistant version.

Please refer to the images below for ordering information.

Order code Shaft version — 8.3651 (Type) . 2 (a) X (b) X (c) X (d) . X (e) X (f) X (g) X (h)

a *Flange*
2 = synchro flange, ø 36 mm [1.42"]

b *Shaft (ø x L), with flat*
3 = ø 6 x 12.5 mm [0.24 x 0.49"]
6 = ø 8 x 12.5 mm [0.32 x 0.49"]
5 = ø 1/4" x 12.5 mm [0.49"]

c *Output circuit* [1]
3 = current output
4 = voltage output

d *Type of connection*
1 = axial cable, 1 m [3.28'] PUR
A = axial cable, special length PUR *)
2 = radial cable, 1 m [3.28'] PUR
B = radial cable, special length PUR *)
3 = axial M12 connector, 5-pin
4 = radial M12 connector, 5-pin
*) Available special lengths (connection types A, B): 2, 3, 5, 8, 10, 15 m [6.56, 9.84, 16.40, 26.25, 32.80, 49.21'] order code expansion .XXXX = length in dm ex.: 8.3651.233A.1311.0030 (for cable length 3 m)

e *Measuring range*
1 = 1 x 360°
2 = 1 x 180°
3 = 1 x 90°
4 = 1 x 45°

f *Interface / power supply*
3 = 4 ... 20 mA / 10 ... 30 V DC
4 = 0 ... 10 V / 15 ... 30 V DC
5 = 0 ... 5 V / 10 ... 30 V DC

g *Option 1*
1 = count direction cw [2]
2 = count direction ccw [3]

h *Option 2*
1 = IP67
2 = IP69k

Optional on request
- Ex 2/22 (only for type of connection 3 + 4)
- surface protection salt spray tested

Order code Hollow shaft — 8.3671 (Type) . X (a) X (b) X (c) X (d) . X (e) X (f) X (g) X (h)

a *Flange*
2 = with spring element, long
5 = with stator coupling, ø 46 mm [1.81"]

b *Blind hollow shaft (insertion depth max. 18 mm [0.71"])*
2 = ø 6 mm [0.24"]
4 = ø 8 mm [0.32"]
6 = ø 10 mm [0.39"]
3 = ø 1/4"

c *Output circuit* [1]
3 = current output
4 = voltage output

d *Type of connection*
1 = axial cable, 1 m [3.28'] PUR
A = axial cable, special length PUR *)
2 = radial cable, 1 m [3.28'] PUR
B = radial cable, special length PUR *)
3 = axial M12 connector, 5-pin
4 = radial M12 connector, 5-pin
*) Available special lengths (connection types A, B): 2, 3, 5, 8, 10, 15 m [6.56, 9.84, 16.40, 26.25, 32.80, 49.21'] order code expansion .XXXX = length in dm ex.: 8.3671.523A.1311.0030 (for cable length 3 m)

e *Measuring range*
1 = 1 x 360°
2 = 1 x 180°
3 = 1 x 90°
4 = 1 x 45°

f *Interface / power supply*
3 = 4 ... 20 mA / 10 ... 30 V DC
4 = 0 ... 10 V / 15 ... 30 V DC
5 = 0 ... 5 V / 10 ... 30 V DC

g *Option 1*
1 = count direction cw [2]
2 = count direction ccw [3]

h *Option 2*
1 = IP67
2 = IP69k

Optional on request
- Ex 2/22 (only for type of connection 3 + 4)
- surface protection salt spray tested

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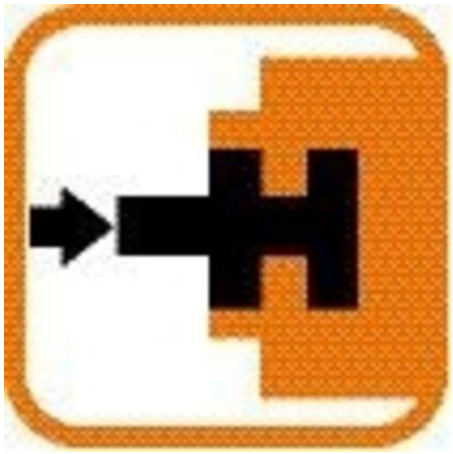
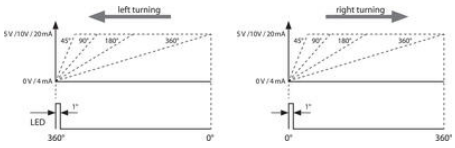
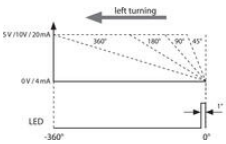
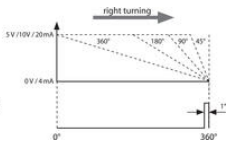
TECHNICAL DATA

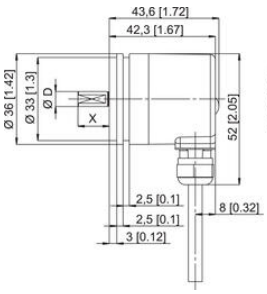
Connection	Cable, M12
Housing diameter	36 mm
IP class	IP67, IP69K
Mounting	Shoulder
Output	Analog
Sensor type	Absolute
Shaft diameter max	8 mm
Shaft diameter min	6 mm
Supply voltage dc max	30 V DC
Supply voltage dc min	10 V DC
Temperature operational max	85 °C
Temperature operational min	-40 °C
Version	Singleturn

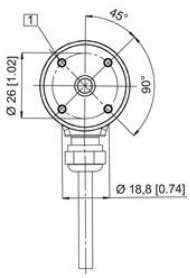


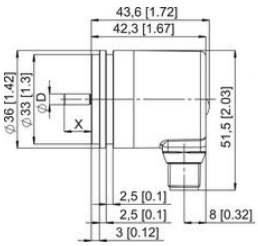


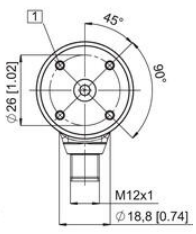












Interface	Type of connection	Cable (isolate unused wires individually before initial start-up)				
3 (current)	1, 2, A, B	Signal:	0 V	+V	+I	-I
		Cable colour:	WH	BN	GN	YE

Interface	Type of connection	M12 connector, 5-pin				
3 (current)	3, 4	Signal:	0 V	+V	+I	-I
		Pin:	3	2	4	5

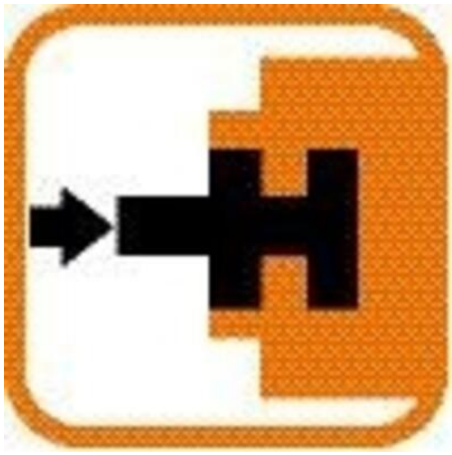
Interface	Type of connection	Cable (isolate unused wires individually before initial start-up)				
4, 5 (voltage)	1, 2, A, B	Signal:	0 V	+V	+U	-U
		Cable colour:	WH	BN	GN	YE

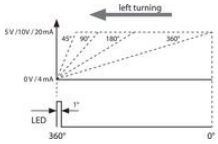
Interface	Type of connection	M12 connector, 5-pin				
4, 5 (voltage)	3, 4	Signal:	0 V	+V	+U	-U
		Pin:	3	2	4	5

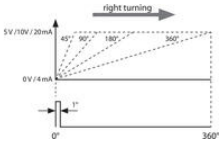
+V : Encoder power supply +V DC
0 V : Encoder power supply-ground GND (0 V)
+U / -U : Voltage + / voltage -
+I / -I : Current + / current -

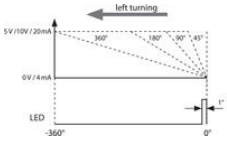
Top view of mating side, male contact base

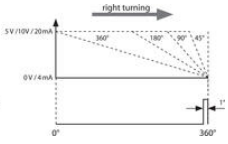
M12 connector, 5-pin











Interface	Type of connection	Cable (isolate unused wires individually before initial start-up)				
3 (current)	1, 2, A, B	Signal:	0 V	+V	+I	-I
		Cable colour:	WH	BN	GN	YE

Interface	Type of connection	M12 connector, 5-pin				
3 (current)	3, 4	Signal:	0 V	+V	+I	-I
		Pin:	3	2	4	5

Interface	Type of connection	Cable (isolate unused wires individually before initial start-up)				
4, 5 (voltage)	1, 2, A, B	Signal:	0 V	+V	+U	-U
		Cable colour:	WH	BN	GN	YE

Interface	Type of connection	M12 connector, 5-pin				
4, 5 (voltage)	3, 4	Signal:	0 V	+V	+U	-U
		Pin:	3	2	4	5

+V : Encoder power supply +V DC
0 V : Encoder power supply ground GND (0 V)
+U / -U : Voltage + / voltage -
+I / -I : Current + / current -

Top view of mating side, male contact base

M12 connector, 5-pin