



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

- 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.

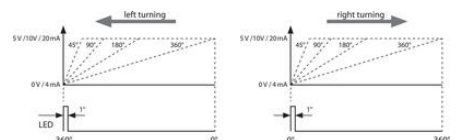
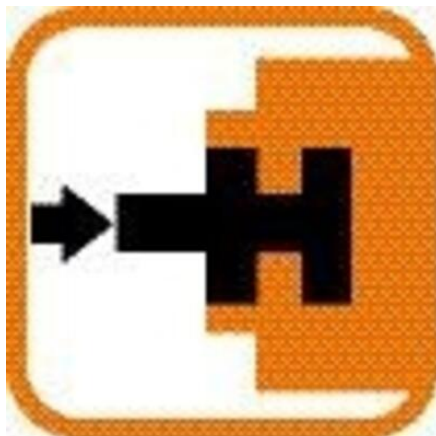
Please refer to the images below for ordering information.

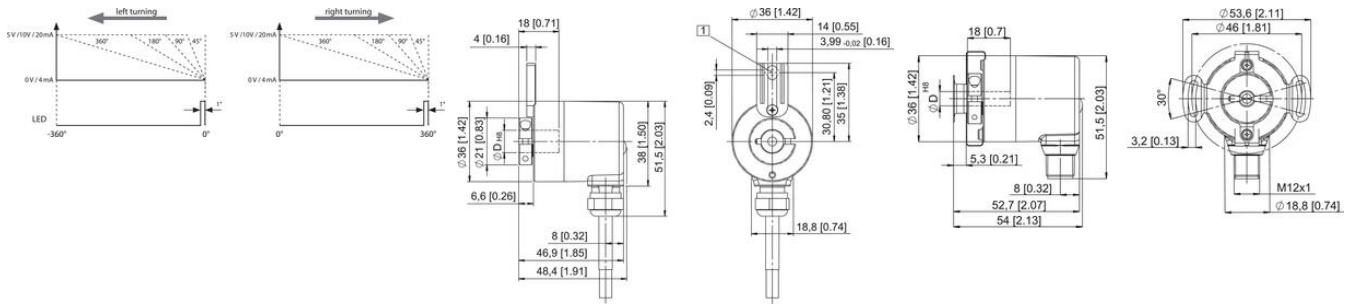
Order code		8.3651		<table><tr><td>2</td><td>X</td><td>X</td><td>X</td><td>.</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>a</td><td>b</td><td>c</td><td>d</td><td></td><td>e</td><td>f</td><td>g</td><td>h</td></tr></table>								2	X	X	X	.	X	X	X	X	a	b	c	d		e	f	g	h
2	X	X	X	.	X	X	X	X																					
a	b	c	d		e	f	g	h																					
Shaft version		Type																											
<b>a</b> Flange		<b>d</b> Type of connection		<b>f</b> Interface / power supply																									
<b>2</b> = synchro flange, ø 36 mm [1.42"]		1 = axial cable, 1 m [3.28'] PUR		<b>3</b> = 4 ... 20 mA / 10 ... 30 V DC																									
		A = axial cable, special length PUR *)		<b>4</b> = 0 ... 10 V / 15 ... 30 V DC																									
		<b>2</b> = radial cable, 1 m [3.28'] PUR		<b>5</b> = 0 ... 5 V / 10 ... 30 V DC																									
		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)																											
<b>c</b> Output circuit <sup>1)</sup>		<b>e</b> Measuring range																											
<b>3</b> = current output		<b>1</b> = 1 x 360°																											
<b>4</b> = voltage output		2 = 1 x 180°																											
		3 = 1 x 90°																											
		4 = 1 x 45°																											

<b>Order code</b> <b>Hollow shaft</b>		<b>8.3671</b>	<b>Type</b>	<b>.XXXXX.XXXXX</b>	<b>a b c d e f g h</b>
<b>a</b> Flange 2 = with spring element, long 5 = with stator coupling, ø 46 mm [1.81"]	<b>b</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"	<b>c</b> Output circuit <sup>1)</sup> 3 = current output 4 = voltage output	<b>d</b> 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)	<b>e</b> Measuring range 1 = 1 x 360° 2 = 1 x 180° 3 = 1 x 90° 4 = 1 x 45°	<b>f</b> 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  <b>g</b> Option 1 1 = count direction cw <sup>2)</sup> 2 = count direction ccw <sup>3)</sup>  <b>h</b> Option 2 1 = IP67 2 = IP69k  Optional on request - Ex 2/22 (only for type of connection 3 + 4) - surface protection salt spray tested

## Specifications

Connection Thread	Cable, M12
Housing diameter	36
IP Class	IP67, IP69K
Mounting	Hollow shaft
Output	Analog
Sensor type	Absolute
Shaft Diameter max	10
Shaft Diameter min	6
Supply Voltage DC Max	30
Supply Voltage DC Min	10
Temperature range from	-40
Temperature range to	85
Version	Singleturn





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

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

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

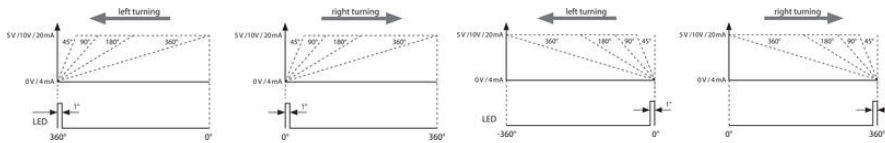
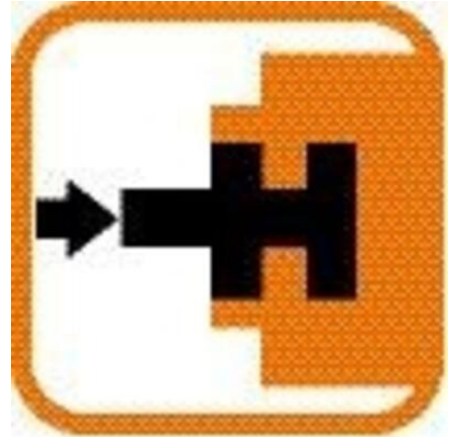
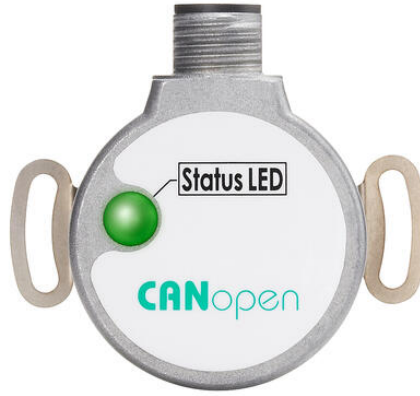
Interface	Type of connector	M12 connector 5-pin
4, 5	3, 4	Signal: 0V, +V, +I, -I
4, 5	(voltage)	Pin: 3, 2, 4, 5

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

Top view of mating side, male contact base



M12 connector, 5-pin



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

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

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

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

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

Top view of mating side, male contact base



M12 connector, 5-pin