

**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                            | 8.3651 . 2XXXX . XXXX |   |   |  |   |  |   |   |   |   |
|---------------------------------------|-----------------------|---|---|--|---|--|---|---|---|---|
| Shaft version                         | Type                  | a   | b | c  | d | e  | f | g | h | i |
| <b>a</b> Flange                       |                       | <b>2 = synchro flange, ø 36 mm [1.42"]</b>  |   | <b>d</b> Type of connection  |   | <b>f</b> Interface / power supply  |   |   |   |   |
| <b>b</b> Shaft (ø x L), with flat     |                       | <b>3 = ø 6 x 12.5 mm [0.24 x 0.49"]</b><br><b>6 = ø 8 x 12.5 mm [0.32 x 0.49"]</b><br><b>5 = ø 1/4" x 12.5 mm [0.49"]</b> |   | <b>A = axial cable, special length PUR *)</b><br><b>2 = radial cable, 1 m [3.28'] PUR</b><br><b>B = radial cable, special length PUR *)</b><br><b>3 = axial M12 connector, 5-pin</b><br><b>4 = radial M12 connector, 5-pin</b> |   | <b>3 = 4 ... 20 mA / 10 ... 30 V DC</b><br><b>4 = 0 ... 10 V / 15 ... 30 V DC</b><br><b>5 = 0 ... 5 V / 10 ... 30 V DC</b> |   |   |   |   |
| <b>c</b> Output circuit <sup>1)</sup> |                       | <b>3 = current output</b><br><b>4 = voltage output</b>  |   | *) Available special lengths (connection types A, B):<br>2, 3, 5, 8, 10, 15 m [6.56, 9.84, 16.40, 26.25, 32.80, 49.21']<br>order code expansion .XXXX = length in dm<br>ex.: 8.3651.233A.1311.0030 (for cable length 3 m)      |   | <b>g</b> Option 1<br><b>1 = count direction cw <sup>2)</sup></b><br><b>2 = count direction ccw <sup>3)</sup></b>           |   |   |   |   |
|                                       |                       |   |   | <b>e</b> Measuring range   |   | <b>h</b> Option 2<br><b>1 = IP67</b><br><b>2 = IP69k</b>   |   |   |   |   |
|                                       |                       |   |   | <b>1 = 1 x 360°</b><br><b>2 = 1 x 180°</b><br><b>3 = 1 x 90°</b><br><b>4 = 1 x 45°</b>   |   | <b>i</b> Optional on request<br>- Ex 2/22 (only for type of connection 3 + 4)<br>- surface protection salt spray tested    |   |   |   |   |

**Order code**  
**Hollow shaft**

**8.3671**

Type

. **XXXXX** . **XXXXX**  
**a b c d e f g h**

**a Flange**

2 = with spring element, long  
 5 = with stator coupling,  $\varnothing$  46 mm [1.81"]

**b Blind hollow shaft**

(insertion depth max. 18 mm [0.71"])  
 2 =  $\varnothing$  6 mm [0.24"]  
 4 =  $\varnothing$  8 mm [0.32"]  
 6 =  $\varnothing$  10 mm [0.39"]  
 3 =  $\varnothing$  1/4"

**c Output circuit<sup>1)</sup>**

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<sup>2)</sup>  
 2 = count direction ccw<sup>3)</sup>

**h Option 2**

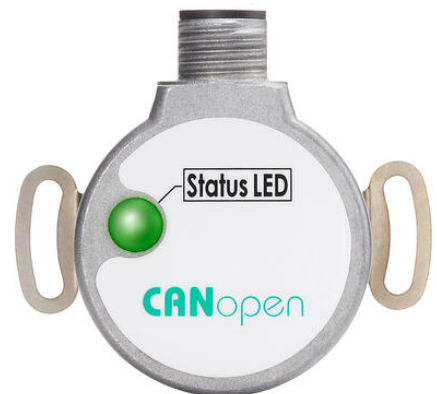
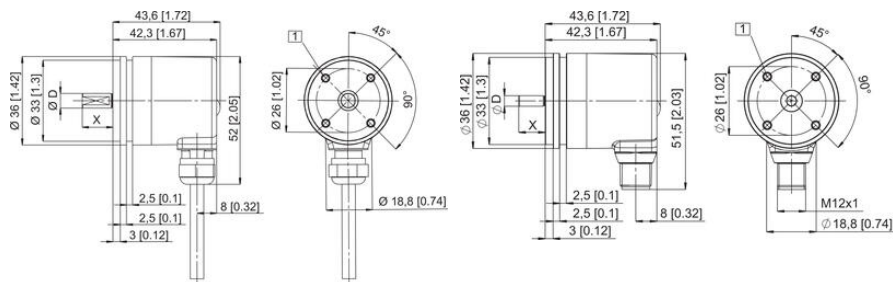
1 = IP67  
 2 = IP69k

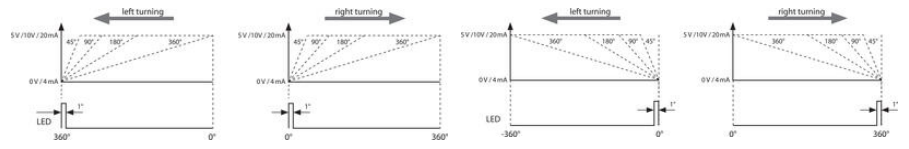
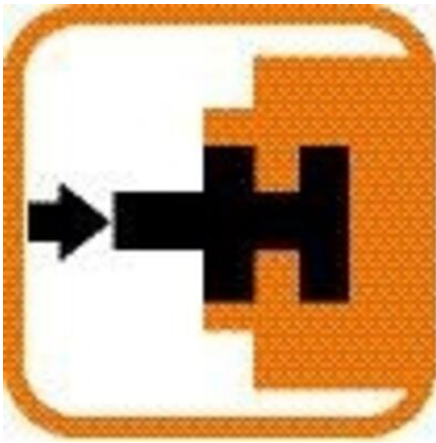
*Optional on request*

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

Specifications

|                        |             |
|------------------------|-------------|
| Housing diameter       | 36          |
| IP Class               | IP67, IP69K |
| Shaft Diameter max     | 8           |
| Shaft Diameter min     | 6           |
| Supply Voltage DC Max  | 30          |
| Supply Voltage DC Min  | 10          |
| Temperature range from | -40         |
| Temperature range to   | 85          |





| Interface         | Type of connection | Cable (isolate unused wires individually before initial start up) |
|-------------------|--------------------|---|
| 3<br>(current)    | 1, 2, A, B         | Signal: 0V - +V - +I - -I<br>Cable colour: WH BN GN YE            |
| 3                 | Type of connection | M12 connector, 5 pin  |
| 3, 4<br>(current) | Signal:<br>Pin:    | 0V - +V - +I - -I<br>3 2 4 5                                      |
| Interface         | Type of connection | Cable (isolate unused wires individually before initial start up) |
| 4, 5<br>(voltage) | 1, 2, A, B         | Signal: 0V - +V - +U - -U<br>Cable colour: WH BN GN YE            |
| 4, 5<br>(voltage) | Type of connection | M12 connector, 5 pin  |
| 4, 5<br>(voltage) | Signal:<br>Pin:    | 0V - +V - +U - -U<br>3 2 4 5                                      |

Top view of mating side, male contact base



M12 connector, 5-pin

+V: Encoder power supply +5DC  
0V: Encoder power supply ground GND (0V)  
+I / -I: Voltage + / voltage -  
+U / -U: Current + / current -