# **KUEBLER - ABSOLUTE-CODED ANGULAR TRANSMITTER SENDIX M3661** / M3681, MAGNETIC, ANALOGUE, Ø36 MM

SERIE M3681

- Housing diameter Ø36 mm
- Analogue output
- New multicolor technology
- IP67





### Product description

Sendix M3661 / M3681 is a magnetically encoded absolute encoder with the latest in multi-color technology with "Energy Harvesting". Energy Harvesting technology is based on magnetic recharging, eliminating both battery and gear.

With its magnetic coding, the pulse sensor becomes more shockproof and insensitive. The high IP rating allows the Sendix M3661 / M3681 for outdoor environments and mobile applications.

Please refer to the images below for ordering information.

# Order code **Shaft version**

#### XXXX 8.M3661. 0000 00

## Flange

- 1 = clamping flange, IP67, ø 36 mm [1.42"]
- 3 = clamping flange, IP65, ø 36 mm [1.42"]
- 2 = synchro flange, IP67, ø 36 mm [1.42"]
- 4 = synchro flange, IP65, ø 36 mm [1.42"]

# Shaft (ø x L), with flat

- 1 = Ø 6 x 12.5 mm [0.24 x 0.49"]
- 3 = ø 8 x 15 mm [0.32 x 0.59"]
- 5 = ø 10 x 20 mm [0.39 x 0.79"]
- 2 = ø 1/4" x 12.5 mm [0.49"]
- Output circuit 1)
- 3 = current output 4 = voltage output

# Type of connection

- 1 = axial cable, 1 m [3.28'] PVC
- A = axial cable, special length PVC \*)
- 2 = radial cable, 1 m [3.28'] PVC
- B = radial cable, special length PVC \*)
- 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 [5.56, 9.84, 16.40, 26.25, 32.80, 49.21'] order code expansion .XXXX = length in dm ex.: 8.M3661.433A.3112.0030 (for cable length 3 m)

# Interface / resolution / power supply

3 = 4 ... 20 mA / 12 bit / 10 ... 30 V DC

4 = 0 ... 10 V / 12 bit / 15 ... 30 V DC

5 = 0 ... 5 V / 11 bit / 10 ... 30 V DC

## Measuring range

### 1 = 16 revolutions / cw

- 2 = 16 revolutions / ccw
- 3 = scalable up to 65.536 revolutions. with limit switch function / cw
- 4 = scalable up to 65.536 revolutions. without limit switch function / cw
- 5 = scalable up to 65,536 revolutions, with limit switch function / ccw
- 6 = scalable up to 65,536 revolutions, without limit switch function / ccw

#### Optional on request

Measuring range

1 = 16 revolutions / cw

2 = 16 revolutions / ccw

3 = scalable up to 65.536 revolutions.

with limit switch function / cw

without limit switch function / cw

4 = scalable up to 65,536 revolutions,

5 = scalable up to 65,536 revolutions,

6 = scalable up to 65,536 revolutions,

with limit switch function / ccw

without limit switch function / ccw

- Ex 2/22 (only for connection types 3 and 4)
- surface protection salt spray tested

# Order code **Hollow shaft**

#### X X X X . X X 1 2 8.M3681. 0000 00

# Flange

- 2 = with stator coupling, IP65, ø 46 mm [1.81"]
- 3 = with spring element, long, IP65
- 5 = with stator coupling, IP67, ø 46 mm [1.81"]
- 6 = with spring element, long, IP67

# Blind hollow shaft

(insertion depth max. 18.5 mm [0.73"])

- 1 = ø 6 mm [0.24"]
- 3 = Ø 8 mm [0.32"]
- 4 = ø 10 mm [0.39"]
- 2 = 0.1/4

# Output circuit 1)

- 3 = current output
- 4 = voltage output

# Type of connection

- 1 = axial cable, 1 m [3.28'] PVC
- A = axial cable, special length PVC \*)
- 2 = radial cable, 1 m [3.28'] PVC
- B = radial cable, special length PVC \*)
- 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 [5.56, 9.84, 16.40, 26.25, 32.80, 49.21'] order code expansion .XXXX = length in dm Ex.: 8.M3681.243A.3112.0030 (for cable length 3 m)

# O Interface / resolution / power supply

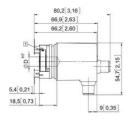
3 = 4 ... 20 mA / 12 bit / 10 ... 30 V DC

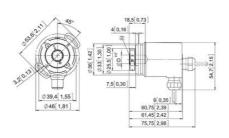
4 = 0 ... 10 V / 12 bit / 15 ... 30 V DC 5 = 0 ... 5 V / 11 bit / 10 ... 30 V DC

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

# Specifications

Connection Thread	Cable, M12				
Housing diametre	36				
IP Class	IP65, IP67				
Mounting	Hollow shaft				
Output	Analog				
Resolution	4-20 mA: 12 bit, 0-10 V: 12 bit, 0-5 V: 11 bit				
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	Multiturn				











Interface	Type of connects	on Cable (Isolate un	used wires it	ndividually	oefore initia	start-up)			
3 (current)	1.2.A.8	Signal	OV	+V	+1	SET 1 0	SET 2 11		
		Cable colour:	WH	BN	GN	GY	PK.		
Interface	Type of connects	Type of connection M12 connector, 5 pln							
3 (current)	3.4	Signal	OV	+V	el	SET 1 11	SET 2 11		
		Pirc:	3	2	11	. 5	4		
Interface	Type of connection Cable (isolate unused wires individually before initial start-up)								
4,5 (current)	1, 2, A, 8	Signat	ov	+V	+8	SET 1 15	5ET 2 11		
		Cable colour:	WH	BN	GN	GY	PK.		
Interface	Type of connects	on M12 connector, 5	pin			-			
4,5 (current)	3.4	Signal:	OV	+٧	+U	SET 1 11	58Y 2 11		
		Pin:	3	2	- 1	5	4		

