

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

SERIE M3661

- 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.

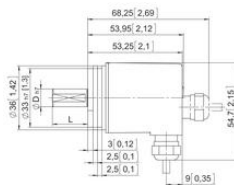
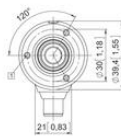
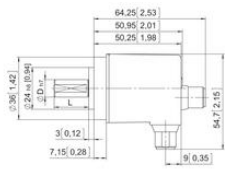
Please refer to the images below for ordering information.

Order code	8.M3661	.XXXX	.XX12
Shaft version	Type	a b c d	e f
<b>a Flange</b>	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 = <b>synchro flange, IP65, ø 36 mm [1.42"]</b>	<b>d Type of connection</b> 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 = <b>radial M12 connector, 5-pin</b>	<b>f Measuring range</b> 1 = <b>16 revolutions / ccw</b> 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
<b>b Shaft (ø x L), with flat</b>	1 = ø 6 x 12.5 mm [0.24 x 0.49"] 3 = <b>ø 8 x 15 mm [0.32 x 0.59"]</b> 5 = ø 10 x 20 mm [0.39 x 0.79"] 2 = ø 1/4" x 12.5 mm [0.49"]	*) 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)	<i>Optional on request</i> - Ex 2/22 (only for connection types 3 and 4) - surface protection salt spray tested
<b>c Output circuit <sup>1)</sup></b>	3 = <b>current output</b> 4 = <b>voltage output</b>	<b>e Interface / resolution / power supply</b> 3 = 4 ... <b>20 mA / 12 bit / 10 ... 30 V DC</b> 4 = 0 ... <b>10 V / 12 bit / 15 ... 30 V DC</b> 5 = 0 ... 5 V / 11 bit / 10 ... 30 V DC	

Order code	8.M3681	.XXXX	.XX12
Hollow shaft	Type	a b c d	e f
<b>a Flange</b>	2 = <b>with stator coupling, IP65, ø 46 mm [1.81"]</b> 3 = with spring element, long, IP65 5 = with stator coupling, IP67, ø 46 mm [1.81"] 6 = with spring element, long, IP67	<b>d Type of connection</b> 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 = <b>radial M12 connector, 5-pin</b>	<b>f Measuring range</b> 1 = <b>16 revolutions / ccw</b> 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
<b>b Blind hollow shaft</b> (insertion depth max. 18.5 mm [0.73"])	1 = ø 6 mm [0.24"] 3 = ø 8 mm [0.32"] 4 = <b>ø 10 mm [0.39"]</b> 2 = ø 1/4"	*) 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)	<i>Optional on request</i> - Ex 2/22 (only for connection types 3 and 4) - surface protection salt spray tested
<b>c Output circuit <sup>1)</sup></b>	3 = <b>current output</b> 4 = <b>voltage output</b>	<b>e Interface / resolution / power supply</b> 3 = 4 ... <b>20 mA / 12 bit / 10 ... 30 V DC</b> 4 = 0 ... <b>10 V / 12 bit / 15 ... 30 V DC</b> 5 = 0 ... 5 V / 11 bit / 10 ... 30 V DC	

# TECHNICAL DATA

Connection	Cable, M12
Housing diameter	36 mm
IP class	IP65, IP67
Mounting	Shoulder
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 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	Multiturn



Interface	Type of connection	Cable (isolate around wires individually before initial start up)	Signal	0 V	+V	+I	SET 1 (1)	SET 2 (1)
3	1, 2, A, B							
(current)			WH	BN	GN	GY	PK	
3	M12 connector, 5 pin							
(current)	3, 4		0 V	+V	+I	SET 1 (1)	SET 2 (1)	
			Pin	3	2	1	5	4
4, 5	1, 2, A, B							
(current)			WH	BN	GN	GY	PK	
4, 5	M12 connector, 5 pin							
(current)	3, 4		0 V	+V	+I	SET 1 (1)	SET 2 (1)	
			Pin	3	2	1	5	4

+V: encoder power supply +V DC      +I: voltage      SET 1: set input for teachpoint 1  
 0 V: encoder power supply ground GND (0 V)      +I: current      SET 2: set input for teachpoint 2

1) For absolute version.

Top view of mating side, male contact base



M12 connector, 5-pin