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 Shaft version — 8.M3661 . [a][b][c][d] . [e][f] 1 2 (Type)

a *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"]

b *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"]

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

d *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)

e *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

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

Order code Hollow shaft — 8.M3681 . [a][b][c][d] . [e][f] 1 2 (Type)

a *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

b *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 = ø 1/4"

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

d *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)

e *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

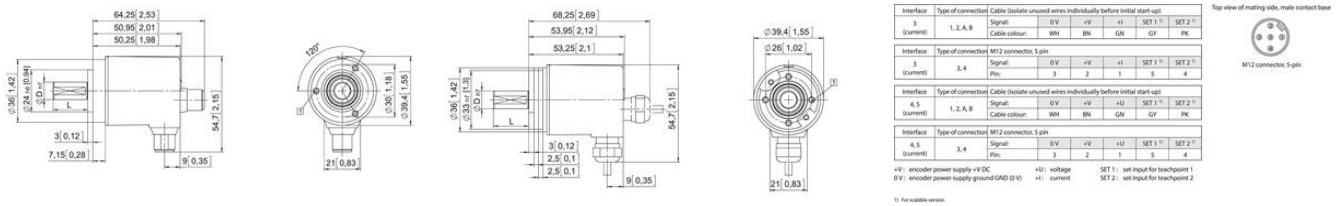
f *Measuring range*
1 = 16 revolutions / cw
2 = 16 revolutions / ccw
3 = scalable up to 65,536 revolutions, with limit switch function / cw
4 = scalable up to 65,536 revolutions, without limit switch function / cw
5 = scalable up to 65,536 revolutions, with limit switch function / ccw
6 = scalable up to 65,536 revolutions, without limit switch function / ccw

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

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

1) For scalable version.

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

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

1) For scalable version.

Top view of mating side, male contact base

M12 connector, 5-pin