

Standard mechanical multiturn, optical

Sendix 5863 / 5883 (shaft / hollow shaft)

SSI / BiSS



The Sendix 5863 and 5883 multiturn encoders with SSI or BiSS interface and optical sensor technology can achieve a resolution of max. 29 bits.

A through hollow shaft up to 14 mm and a blind hollow shaft up to 15 mm are available, as well as versions with additional SinCos or RS422 incremental track.

























High rotational

High protection

High shaft load capacity

resistant

proof

Reverse polarity protection

SinCos

salt spray-tested

Reliable

- · Tried-and-tested in applications with the highest demands, such as in wind energy or mobile automation.
- · Absolutely reliable operation in areas with strong magnetic fields, thanks to mechanical gear with optical sensor technology.
- Rugged die-cast housing, remains sealed even in harsh everyday use.
- -40°C...+90°C: use in wide temperature range and protection IP67.

Versatile

- Available with SSI or BiSS interface and combined with SinCos incremental signals.
- · The right fixing solution or type of connection available for every application.
- SET button and LED for simple start-up.

Order code **Shaft version**

8.5863



0000

If for each parameter of an encoder the underlined preferred option is selected, then the delivery time will be 10 working days for a maximum of 10 pieces. ${\tt Qts.}$ up to 50 pcs. of these types generally have a delivery time of 15 working day



Inputs / outputs 5)

status output

Options (service)

3 = SET button and

status LED

1 = no option

2 = status LED

2 = SET, DIR input

additional

a Flange

1 = clamping flange, IP65 ø 58 mm [2.28"]

3 = clamping flange, IP67 ø 58 mm [2.28"]

2 = synchro flange, IP65 ø 58 mm [2.28"]

4 = synchro flange, IP67 ø 58 mm [2.28"]

5 = square flange, IP65 □ 63.5 mm [2.5"]

7 = square flange, IP67 □ 63.5 mm [2.5"]

6 = servo flange, IP65 ø 63.5 mm [2.5"] 1)

8 = servo flange, IP67 ø 63.5 mm [2.5"] 1) c Interface / power supply

1 = SSI, BiSS / 5 V DC

2 = SSI, BiSS / 10 ... 30 V DC

3 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC 4 = SSI, BiSS + 2048 ppr. SinCos / 10 ... 30 V DC

5 = SSI, BiSS / 5 V DC, with sensor output

6 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC, with sensor output

7 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 5 V DC

8 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 10 ... 30 V DC

9 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 5 V DC, with sensor output

Shaft (ø x L), with flat

1 = 6 x 10 mm [0.24 x 0.39"] 2)

 $2 = 10 \times 20 \text{ mm} [0.39 \times 0.79"]^{3}$

3 = 1/4" x 7/8"

4 = 3/8" x 7/8"

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 M23 connector, 12-pin

4 = radial M23 connector, 12-pin 5 = axial M12 connector, 8-pin 4)

6 = radial M12 connector, 8-pin 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.: 8.5863.112A.G323.0030 (for cable length 3 m)

B = SSI, binary

C = BiSS, binary

G = SSI, gray

• Resolution 5)

A = 10 bit ST + 12 bit MT

1 = 11 bit ST + 12 bit MT 2 = 12 bit ST + 12 bit MT

3 = 13 bit ST + 12 bit MT

4 = 14 bit ST + 12 bit MT

7 = 17 bit ST + 12 bit MT

Optional on request

- Ex 2/22 6)
- surface protection salt spray tested
- other singleturn resolutions

- 2) Preferred type only in conjunction with flange type 2.
- 3) Preferred type only in conjunction with flange type 1. 4) Only in conjunction with interface type 1 and 2.
- 5) Resolution, preset value and counting direction factory-programmable.
- 6) For the cable connection type, cable material PUR.

¹⁾ US version.



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Order code **Hollow shaft**

|X|X|2|XX|X|X|X|8.5883 **8 0 8 0** 000 If for each parameter of an encoder the underlined preferred option is selected, then the delivery time will be 10 working days for a maximum of 10 pieces. ${\tt Qts.}\ {\tt up}\ {\tt to}\ {\tt 50}\ {\tt pcs.}\ {\tt of}\ {\tt these}\ {\tt types}\ {\tt generally}\ {\tt have}\ {\tt a}\ {\tt delivery}\ {\tt time}\ {\tt of}\ {\tt 15}\ {\tt working}\ {\tt days}.$



a Flange

- 1 = with spring element, long, IP65
- 2 = with spring element, long, IP67
- 3 = with stator coupling, IP65 Ø 65 mm [2.56"]
- 4 = with stator coupling, IP67 ø 65 mm [2.56"]
- 5 = with stator coupling, IP65 ø 63 mm [2.48"]
- 6 = with stator coupling, IP67 ø 63 mm [2.48"]

b Hollow shaft

- 3 = Ø 10 mm [0.39"]
- 4 = ø 12 mm [0.47"]
- $5 = \emptyset 14 \text{ mm } [0.55"]$
- $6 = \emptyset$ 15 mm [0.59"] blind hollow shaft
- $8 = \emptyset 3/8"$
- $9 = \emptyset 1/2"$

Interface / power supply

- 1 = SSI, BiSS / 5 V DC
- 2 = SSI, BiSS / 10 ... 30 V DC
- 3 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC
- 4 = SSI, BiSS + 2048 ppr. SinCos / 10 ... 30 V DC
- 5 = SSI, BiSS / 5 V DC, with sensor output
- 6 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC, with sensor output
- 7 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 5 V DC
- 8 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 10 ... 30 V DC
- 9 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 5 V DC, with sensor output

Type of connection

- 2 = radial cable, 1 m [3.28'] PVC
- B = radial cable, special length PVC *)
- E = tangential cable, 1 m [3.28'] PVC
- F = tangential cable, special length PVC *)
- 4 = radial M23 connector, 12-pin
- 6 = radial M12 connector, 8-pin 2)
- *) Available special lengths (connection types B, F): 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.: 8.5883.542B.G323.0030 (for cable length 3 m)

Code

- B = SSI, binary
- C = BiSS, binary G = SSI, gray

- Resolution 1)
- A = 10 bit ST + 12 bit MT
- 1 = 11 bit ST + 12 bit MT
- 2 = 12 bit ST + 12 bit MT
- 3 = 13 bit ST + 12 bit MT
- 4 = 14 bit ST + 12 bit MT
- 7 = 17 bit ST + 12 bit MT

Inputs / outputs 1)

- 2 = SET, DIR input additional
 - status output
- **(b)** Options (service)
- 1 = no option
- 2 = status LED
- 3 = SET button and
 - status LED

Optional on request

- Ex 2/22 (not for type of connection E, F) 3)
- surface protection salt spray tested
- other singleturn resolutions

Mounting accessory t	for shaft encoders		Order no.
Coupling		bellows coupling ø 19 mm [0.75"] for shaft 6 mm [0.24"] bellows coupling ø 19 mm [0.75"] for shaft 10 mm [0.39"]	8.0000.1102.0606 8.0000.1102.1010
Mounting accessory t	for hollow shaft encoders		Order no.
Cylindrical pin, long for torque stops	8[0,31] 5[0,2] SW7 [0,28] 9 30 [1,18]	with fixing thread	8.0010.4700.0000
Connection technolog	JY		Order no.
Connector, self-assem	bly (straight)	M12 female connector with coupling nut M23 female connector with coupling nut	05.CMB 8181-0 8.0000.5012.0000
Cordset, pre-assemble	ed	M12 female connector with coupling nut, 2 m [6.56'] PVC cable M23 female connector with coupling nut, 2 m [6.56'] PVC cable	05.00.6041.8211.002M 8.0000.6901.0002.0031

Further accessories can be found in the accessories section or in the accessories area of our website at: www.kuebler.com/accessories. Additional connectors can be found in the connection technology section or in the connection technology area of our website at: www.kuebler.com/connection_technology.

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¹⁾ Resolution, preset value and counting direction factory-programmable

²⁾ Only in conjunction with interface type 1 and 2.



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Technical data

Mechanical c	haracteristics	
Maximum speed	shaft version	
IP65 up to 70°C [158°F]		12000 min ⁻¹ , 10000 min ⁻¹ (continuous)
	IP65 up to Tmax	8000 min ⁻¹ , 5000 min ⁻¹ (continuous)
	IP67 up to 70°C [158°F]	11000 min ⁻¹ , 9000 min ⁻¹ (continuous)
	IP67 up to T _{max}	8000 min ⁻¹ , 5000 min ⁻¹ (continuous)
Maximum speed	hollow shaft version	
·	IP65 up to 70°C [158°F]	9000 min ⁻¹ , 6000 min ⁻¹ (continuous)
	IP65 up to T _{max}	6000 min ⁻¹ , 3000 min ⁻¹ (continuous)
	IP67 up to 70°C [158°F]	8000 min ⁻¹ , 4000 min ⁻¹ (continuous)
	IP67 up to T _{max}	4000 min ⁻¹ , 2000 min ⁻¹ (continuous)
Starting torque	IP65	< 0.01 Nm
at 20°C [68°F]	IP67	< 0.05 Nm
Mass moment of inertia		
	shaft version	4.0 x 10 ⁻⁶ kgm ²
	hollow shaft version	7.0 x 10 ⁻⁶ kgm ²
Load capacity of shaft radial		80 N
	axial	40 N
Weight		approx. 0.45 kg [15.87 oz]
Protection acc. t	o EN 60529	
	housing side	IP67
	shaft side	IP65, opt. IP67
Working tempera	ature range	-40°C +90°C [-40°F +194°F] ¹⁾
Material	shaft/hollow shaft	stainless steel
	flange	aluminium
	housing	zinc die-cast
	cable	PVC
Shock resistance	e acc. to EN 60068-2-27	2500 m/s ² , 6 ms
Vibration resistar	ice acc. to EN 60068-2-6	100 m/s ² , 55 2000 Hz
	cable e acc. to EN 60068-2-27	PVC 2500 m/s², 6 ms
		,

Electrical characteristics						
Power supply	5 V DC (+5%) or 10 30 V DC					
Current consumption (no load) 5 V DC 10 30 V DC	max. 80 mA max. 50 mA					
Reverse polarity protection of the power supply	yes (at 10 30 V DC)					
Short circuit proof outputs	yes ²⁾					
UL approval	file 224618					
CE compliant acc. to	EMC guideline 2014/30/EU RoHS guideline 2011/65/EU					

SSI interface				
Output driver		RS485 transceiver type		
Permissible load	/ channel	max. +/- 20 mA		
Signal level HIGH LOW at $I_{Load} = 20 \text{ mA}$		typ. 3.8 V typ 1.3 V		
Resolution singleturn		10 14 bit and 17 bit		
Number of revolu	tions (multiturn)	4096 (12 bit)		
Code		binary or gray		
SSI clock rate		50 kHz 2 MHz		
Data refresh rate	ST resolution ≤ 14 bit ST resolution ≥ 15 bit	≤ 1 μs 4 μs		
Monoflop time		≤ 15 µs		

Note: If the clock starts cycling within the monoflop time, a second data transfer starts with the same data. If the clock starts cycling after the monoflop time, the data transfer starts with the new values The update rate is dependent on the clock speed, data length and monoflop-time.

BiSS interface						
Resolution singleturn	10 14 bit and 17 bit					
Number of revolutions (multiturn)	4096 (12 bit)					
Code	binary					
Clock rate	50 kHz 10 MHz					
Max. update rate	$<$ 10 μs , depends on the clock rate and the data length					
Data refresh rate	≤ 1 µs					
Note: – bidirectional, factory programmable parameters are: resolution, code, direction, alarms and warnings – CRC data verification						

Status output and LED	
Output driver	open collector, internal pull up resistor 22 kOhm
Permissible load	max. 20 mA
Signal level	HIGH: +V / LOW: < 1 V
Active	LOW

The optional LED (red) and the status output serve to display various alarm or error messages. In normal operation the LED is OFF and the status output is HIGH (open collector with int. pull up 22 kOhm).

An active status output (LOW) displays:

- sensor error, singleturn or multiturn (soiling, glass breakage etc.)
- LED fault (failure or ageing)
- over- or under-temperature

In the SSI mode, the fault indication can only be reset by switching off the power-supply to the device.

Option incremental outputs (A/B), 2048 ppr							
SinCos RS422 TTL compatible							
Max. frequency -3dB	400 kHz	400 kHz					
Signal level	1 Vpp (± 20%)	HIGH: min. 2.5 V LOW: max. 0.5 V					
Short circuit proof	yes	yes					

¹⁾ Cable version: -30°C ... +75°C [-22°F ... +167°F].

²⁾ Short circuit to 0V or to output, one channel at a time, power supply correctly applied.



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SET input or SET button		
Input		active HIGH
Input type		comparator
Signal level	HIGH	min: 60 % of +V (power supply) max: +V
	LOW	max: 25 % of +V (power supply)
Input current		< 0.5 mA
Min. pulse duration (SET)		10 ms
Timeout after SET signal		14 ms
Response time (DIR input)		1 ms

The encoder can be set to zero at any position by means of a HIGH signal on the SET input or by pressing the optional SET button (with a pencil, ball-point pen or similar). Other preset values can be factory-programmed. The SET input has a signal processing time of approx. 1 ms. Once the SET function has been triggered, the encoder requires an internal processing time of approx. 15 ms before the new position data can be read. During this time the status output is at LOW.

If this input is not used, it should be connected to 0 V (Encoder ground GND) in order to avoid interferences.

DIR input

Direction input: A HIGH signal switches the direction of rotation from the default cw to ccw. This inverted function can also be factory-programmed. If this input is not used, it should be connected to 0 V (Encoder ground GND) in order to avoid interferences.

Power-ON Time

After Power-ON the device requires a time of approx. 150 ms before valid data can be read.

Hot plugging of the encoder should be avoided.



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Terminal assignment

•															
Type of connection	Features	Cable (isolate	unused	wires in	ndividua	lly befo	re initia	l start-u	ıp)						
1, 2 1, 2, A, B, E, F SET, DIR, Sta	CET DIP Ctotus	Signal:	0 V	+V	C+	C-	D+	D-	SET	DIR	Stat	N/C	N/C	N/C	Ţ
	JLI, DIII, Status	Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	BK	-	-	-	shield
Type of connection	Features	M23 connecto	r												
3. 4	SET. DIR. Status	Signal:	0 V	+V	C+	C-	D+	D-	SET	DIR	Stat	N/C	N/C	N/C	Ť
		Pin:	1	2	3	4	5	6	7	8	9	10	11	12	PH
Type of connection	Features	Cable (isolate	unused	wires in	ndividua	lly befo	re initia	l start-u	ıp)						
1 2 A R E E	SET, DIR, Status	Signal:	0 V	+V	C+	C-	D+	D-	SET	DIR	Stat	N/C	0 Vsens	+Vsens	Ŧ
1, 2, A, B, L, I	sensor output	Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	BK	-	GY-PK	RD-BU	shield
Type of connection	Features	M23 connecto	r												
3.4	SET, DIR, Status	Signal:	0 V	+V	C+	C-	D+	D-	SET	DIR	Stat	N/C	0 Vsens	+Vsens	Ť
3, 4	sensor output	Pin:	1	2	3	4	5	6	7	8	9	10	11	12	PH
Type of connection	Features	Cable (isolate	unused	wires in	ndividua	lly befo	re initia	l start-u	ıp)						
12005	SET, DIR, SinCos	Signal:	0 V	+V	C+	C-	D+	D-	SET	DIR	Α	Ā	В	B	Ť
I, Z, A, D, E, F	or incr. RS422	Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	ВК	VT	GY-PK	RD-BU	shield
Type of connection	Features	M23 connecto	r												
2.4	SET, DIR, SinCos	Signal:	0 V	+V	C+	C-	D+	D-	SET	DIR	Α	Ā	В	B	Ť
3, 4	or incr. RS422	Pin:	1	2	3	4	5	6	7	8	9	10	11	12	PH
Type of connection	Features	Cable (isolate	unused	wires in	ndividua	lly befo	re initia	l start-u	ıp)						
12455	SinCos o. incr. RS422	Signal:	0 V	+V	C+	C-	D+	D-	Α	Ā	В	B	0 Vsens	+Vsens	Ť
I, Z, A, D, E, F	sensor output	Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	ВК	VT	GY-PK	RD-BU	shield
Type of connection	Features	M23 connecto	r												
	SinCos o. incr. RS422	Signal:	0 V	+V	C+	C-	D+	D-	А	Ā	В	B	0 Vsens	+Vsens	Ť
3,4	sensor output	Pin:	1	2	3	4	5	6	7	8	9	10	11	12	PH
Type of connection	Features	M12 connecto	r												
E 6	CET DID	Signal:	0 V	+V	C+	C-	D+	D-	SET	DIR		Ť			
1, 2 5, 6	SET, DIR	Pin:	1	2	3	4	5	6	7	8		PH			
	Type of connection 3, 4 Type of connection 1, 2, A, B, E, F Type of connection 3, 4 Type of connection 1, 2, A, B, E, F Type of connection 3, 4 Type of connection 1, 2, A, B, E, F Type of connection 1, 2, A, B, E, F	Type of connection Features 3, 4 SET, DIR, Status Type of connection Features 1, 2, A, B, E, F SET, DIR, Status SET, DIR, SinCos or incr. RS422 Type of connection Features 3, 4 SET, DIR, SinCos or incr. RS422 Type of connection Features 1, 2, A, B, E, F SinCos o. incr. RS422 Type of connection Features 1, 2, A, B, E, F SinCos o. incr. RS422 sensor output Type of connection Features 3, 4 SinCos o. incr. RS422 sensor output Type of connection Features	Type of connection Features	1, 2, A, B, E, F SET, DIR, Status Signal: 0 V Cable colour: WH	1, 2, A, B, E, F SET, DIR, Status Signal:	1, 2, A, B, E, F SET, DIR, Status Signal:	Type of connection Features SET, DIR, Status Signal: O V	Type of connection Features SET, DIR, Status Signal: O V	1, 2, A, B, E, F SET, DIR, Status Signal:	Type of connection Features SET, DIR, Status Signal: O V	Set, DIR, Status	1, 2, A, B, E, F SET, DIR, Status Signal: 0 V +V C+ C- D+ D- SET DIR Stat Stat SET, DIR, Status Signal: 0 V +V C+ C- D+ D- SET DIR Stat Stat SET, DIR, Status Signal: 0 V +V C+ C- D+ D- SET DIR Stat SET, DIR, Status Signal: 0 V +V C+ C- D+ D- SET DIR Stat SET, DIR, Status Signal: 0 V +V C+ C- D+ D- SET DIR Stat SET, DIR, Status Signal: 0 V +V C+ C- D+ D- SET DIR Stat SET, DIR, Status Sensor output Signal: 0 V +V C+ C- D+ D- SET DIR Stat SET, DIR, Status Sensor output Signal: 0 V +V C+ C- D+ D- SET DIR Stat SET, DIR, Status Sensor output Signal: 0 V +V C+ C- D+ D- SET DIR Stat SET, DIR, Status Sensor output Signal: 0 V +V C+ C- D+ D- SET DIR Stat SET, DIR, Status Sensor output Signal: 0 V +V C+ C- D+ D- SET DIR A SET, DIR, Status Sensor output Signal: 0 V +V C+ C- D+ D- SET DIR A SET, DIR SET,	No. No.	1, 2, A, B, E, F SET, DIR, Status Signal: OV +V C+ C- D+ D- SET DIR Stat N/C N/C Cable colour: WH BN GN YE GY PK BU RD BK C- C- Cable colour: WH BN GN YE GY PK BU RD BK C- C- C- C- D+ D- SET DIR Stat N/C N/C N/C Pin: 1 2 3 4 5 6 7 8 9 10 11	1,2,A,B,E,F SET, DIR, Status Signal:

+V: Encoder power supply +V DC
0 V: Encoder power supply ground GND (0 V)
0 Vsens / +Vsens: Using the sensor outputs of the encoder,

the voltage present can be measured and if necessary increased accordingly.

C+, C-: Clock signal D+, D-: Data signal

 $\begin{array}{ll} A,\,\overline{A} \colon & \text{Incremental output channel A (cosine)} \\ B,\,\overline{B} \colon & \text{Incremental output channel B (sine)} \end{array}$

SET: SET input
DIR: Direction input
Stat: Status output

PH ±: Plug connector housing (shield)

Top view of mating side, male contact base





M12 connector, 8-pin

M23 connector, 12-pin



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Dimensions shaft version

Dimensions in mm [inch]

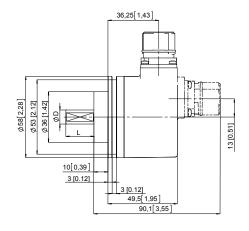
Clamping flange, ø 58 [2.28] Flange type 1 and 3

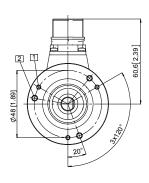
(drawing with M23 connector)

1 3 x M3, 6 [0.24] deep

2 3 x M4, 8 [0.32] deep

D	L	Fit
6 [0.24]	10 [0.39]	h7
10 [0.39]	20 [0.79]	f7
1/4"	7/8"	h7
3/8"	7/8"	h7

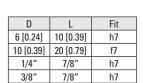


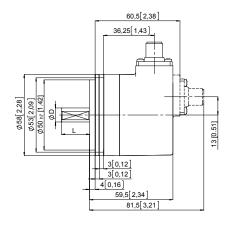


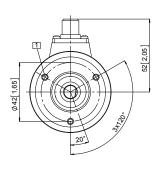
Synchro flange, ø 58 [2.28] Flange type 2 and 4

(drawing with M12 connector)

1 M4, 6 [0.24] deep



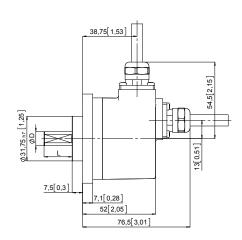


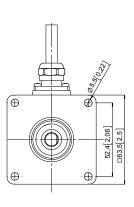


Square flange, \square 63.5 [2.5] Flange type 5 and 7

(drawing with cable)

D	L	Fit
6 [0.24]	10 [0.39]	h7
10 [0.39]	20 [0.79]	f7
1/4"	7/8"	h7
3/8"	7/8"	h7







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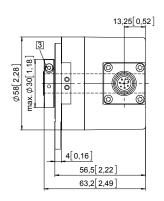
Dimensions hollow shaft version

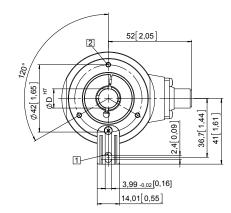
Dimensions in mm [inch]

Flange with spring element, long Flange type 1 and 2

(drawing with M12 connector)

- 1 Torque stop slot, recommendation: cylindrical pin DIN 7, ø 4 [0.16]
- 2 M3, 6 [0.24] deep
- 3 Recommended torque for the clamping ring 0.6 Nm



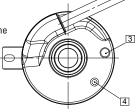


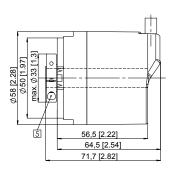
Flange with spring element, long Flange type 1 and 2

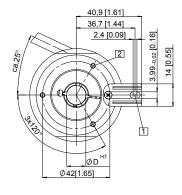
(drawing with tangential cable)

- 1 Torque stop slot, recommendation: cylindrical pin DIN 7, ø 4 [0.16]
- 2 M3, 5.5 [0.21] deep
- 3 Status-LED
- 4 SET button
- 5 Recommended torque for the clamping ring 0.6 Nm

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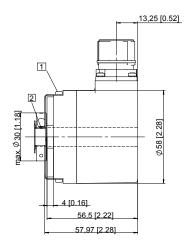
Dimensions hollow shaft version

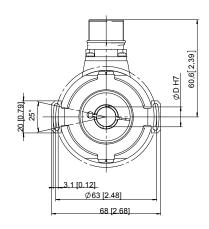
Dimensions in mm [inch]

Flange with stator coupling, ø 63 [2.48] Flange type 5 and 6

Pitch circle diameter for fixing screws 63 [2.48] (drawing with M23 connector)

- 1 Fixing screws DIN 912 M3 x 8 (washer included in delivery)
- 2 Recommended torque for the clamping ring 0.6 Nm





Flange with stator coupling, ø 65 [2.56] Flange type 3 and 4

Pitch circle diameter for fixing screws 65 [2.56] (drawing with cable)

1 Recommended torque for the clamping ring 0.6 Nm

