

Standard mechanical multiturn, optical

Sendix 5863 / 5883 (shaft / hollow shaft)

SSI / BiSS + incremental



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

range

High protection

capacity

resistant

Magnetic field proof

Reverse polarity protection

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 00

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. Qts. up to 50 pcs. of these types generally have a delivery time of 15 working days



Options (service)

3 = SET button and

status LED

1 = no option

2 = status LED

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)

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"

© Interface / supply voltage

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

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 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)

9

Code

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

9 = 19 bit ST + 12 bit MT

Optional on request

- Ex 2/22 6)
- other singleturn resolutions
- surface protection salt spray tested
- seawater resistant (stainless steel V4A)

Salt spray tested / stainless steel V4A as standard types (deliverable as from 1 unit) salt spray tested: stainless steel V4A:



8.5863.32X6.XX22-C

V4A 1.4404

8.5863.32X6.XX22-V4A

- 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.



Standard

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Order code Hollow shaft

X|X|X|X|X|X|2|X8.5883 Type **a**|0|0|0| 00 0

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. Ω ts. up to 50 pcs. of these types generally have a delivery time of 15 working days.



Options (service)

3 = SET button and

status LED

1 = no option

2 = status LFD

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"]

Through hollow shaft

- $3 = \emptyset 10 \text{ mm } [0.39"]$
- 4 = ø 12 mm [0.47"]
- $5 = \emptyset 14 \text{ mm } [0.55"]$
- $8 = \emptyset 3/8"$
- 9 = 0.01/2

Blind hollow shaft

(insertion depth max. 30 mm [1.18"])

 $6 = \emptyset 15 \text{ mm } [0.59"]$

• Interface / supply voltage

- 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
- 9 = 19 bit ST + 12 bit MT

Optional on request

- Ex 2/22 (not for type of connection E, F) 3)
- other singleturn resolutions
- surface protection salt spray tested
- seawater resistant (stainless steel V4A)

Salt spray tested / stainless steel V4A as standard types (deliverable as from 1 unit)



salt spray tested: 8.5883.24X6.XX22-C 8.5883.25X6.XX22-C

V4A 1.4404

stainless steel V4A: 8.5883.24X6.XX22-V4A

Mounting accessory for shaft encoders

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

05.00.6041.8211.002M

8.0000.6901.0002.0031

05.CMB 8181-0

8.0000.5012.0000

Order no.

8.0000.1102.1010

Mounting accessory for hollow shaft encoders Dimensions in mm [inch]

Torque pin, ø 4 mm for flange with spring element

(flange type 1)

5 0.2 SW7 [0,28]

with fixing thread 8.0010.4700.0000

Cables and connectors Preassembled cables

M12 female connector with coupling nut, 8-pin, A coded, straight single-ended

2 m [6.56'] PVC cable M23 female connector with coupling nut, 12-pin, cw

sinale-ended 2 m [6.56'] PVC cable

M23 female connector with coupling nut, 12-pin, cw

Connectors

M12 female connector with coupling nut, 8-pin, A coded, straight (metal)

Further Kübler accessories can be found at: kuebler.com/accessories

Further Kübler cables and connectors can be found at: kuebler.com/connection-technology

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



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Technical data

Mechanical characteristics							
Maximum spee	d shaft version						
IP65 up to 70 °C [158 °F]		12000 min ⁻¹ , 10000 min ⁻¹ (continuous)					
IP65 up to T _{max}		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 spee	d 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 o	f inertia						
	shaft version	4.0 x 10 ⁻⁶ kgm ²					
	hollow shaft version	7.0 x 10 ⁻⁶ kgm ²					
Load capacity o	f shaft radial	80 N					
	axial	40 N					
Weight		approx. 0.45 kg [15.87 oz]					
Protection acc.	to EN 60529						
	housing side	IP67					
	shaft side	IP65, opt. IP67					
Working temper	rature range	-40 °C +90 °C [-40 °F +194 °F] ¹⁾					
Material	shaft/hollow shaft	stainless steel					
	flange	aluminum					
	housing	zinc die-cast					
	cable	PVC (PUR for Ex 2/22)					
Shock resistant	ce acc. to EN 60068-2-27	2500 m/s², 6 ms					
Vibration resista	ince acc. to EN 60068-2-6	100 m/s ² , 55 2000 Hz					

Electrical characteristics							
Supply voltage	5 V DC (+5%) or 10 30 V DC						
$ \begin{array}{c} \textbf{Current consumption} \ (\text{no load}) \qquad 5 \ \text{V DC} \\ 10 \ \dots \ 30 \ \text{V DC} \end{array} $	max. 80 mA max. 50 mA						
Reverse polarity protection of the supply voltage	yes (at 10 30 V DC)						
Short circuit proof outputs	yes ²⁾						

SSI interface					
Output driver		RS485 transceiver type			
Permissible load	/ channel	max. +/- 20 mA			
Signal level	$\begin{array}{c} \text{HIGH} \\ \text{LOW at I}_{\text{Load}} = 20 \text{ mA} \end{array}$	typ. 3.8 V typ 1.3 V			
Resolution single	turn	10 14 bit, 17 bit and 19 bit			
Number of revolut	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 > 14 bit		≤ 1 μs ≤ 4 μs			
Monoflop time		≤ 15 µs			

Wononop time	ιο μο	
Note: If the clock starts cycling within the mon	noflop time, a second data transfer	
starts with the same data. If the clock starts cy	ycling after the monoflop time, the	
data transfer starts with the new values The up	pdate rate is dependent on the	

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						
Output driver		RS485 transceiver type				
Permissible load	/ channel	max. +/- 20 mA				
Signal level	$\begin{array}{c} \text{HIGH} \\ \text{LOW at I}_{\text{Load}} = 20 \text{ mA} \end{array}$	typ. 3.8 V typ 1.3 V				
Resolution single	turn	10 14 bit, 17 bit and 19 bit				
Number of revolu	tions (multiturn)	4096 (12 bit)				
Code		binary				
Clock rate		50 kHz 10 MHz				
Max. update rate		$<$ 10 $\mu s,$ depends on the clock rate and the data length				
Data refresh rate	ST resolution ≤ 14 bit ST resolution > 14 bit	≤ 1 μs ≤ 4 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.

Incremental outputs (A/B)							
	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 ²⁾	yes ²⁾					
Pulse rate	2048 ppr	2048 ppr					

Cable version: -30 °C ... +75 °C [-22 °F ... +167 °F].
 Short circuit to 0V or to output, one channel at a time, supply voltage correctly applied.



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SET input or SET button		
Input		active HIGH
Input type		comparator
Signal level	HIGH	min: 60 % of +V (supply voltage)
		max: +V
	LOW	max: 25 % of +V (supply voltage)
Input current		< 0.5 mA
Min. pulse duration (SET)		10 ms
Timeout after SET signal		14 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 function can also be factory-programmed to be inverted. If DIR is changed when the device is already switched on, then this will be interpreted as an error.

The LED will come ON and the status output will switch to LOW.

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

1 ms

Response time (DIR input)

Power-ON

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.

no. E224618
4/30/EU
1/65/EU
4/34/EU (for Ex 2/22 variants)
2016/1091
2012/3032
2016/1107 (for Ex 2/22 variants)



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Terminal assignment

Interface	Type of connection	Features	Cable (isolate unused cores individually before initial start-up)													
1, 2	1, 2, A, B, E, F	SET. DIR. Status	Signal:	0 V	+V	C+	C-	D+	D-	SET	DIR	Stat	N/C	N/C	N/C	Ť
1, 2	1, 2, A, D, E, F	SEI, DIN, Status	Core color:	WH	BN	GN	YE	GY	PK	BU	RD	ВК	-	-	-	shield
Interface	Type of connection	Features	M23 connecto	r, 12-pir	1											
1, 2	3, 4	SET, DIR, Status	Signal:	0 V	+V	C+	C-	D+	D-	SET	DIR	Stat	N/C	N/C	N/C	Ť
1, 2	3, 4	SEI, DIII, Status	Pin:	1	2	3	4	5	6	7	8	9	10	11	12	PH
Interface	Type of connection	Features	Cable (isolate	unused	cores i	ndividua	ılly befo	re initia	l start-ι	ıp)						
5	1, 2, A, B, E, F	SET, DIR, Status	Signal:	0 V	+V	C+	C-	D+	D-	SET	DIR	Stat	N/C	0 Vsens	+Vsens	Ť
5	I, Z, A, B, E, F	sensor output	Core color:	WH	BN	GN	YE	GY	PK	BU	RD	ВК	-	GY-PK	RD-BU	shield
Interface	Type of connection	Features	M23 connecto	r, 12-pir	1											
5	3, 4	SET, DIR, Status	Signal:	0 V	+V	C+	C-	D+	D-	SET	DIR	Stat	N/C	0 Vsens	+Vsens	Ť
ο	ა, 4	sensor output	Pin:	1	2	3	4	5	6	7	8	9	10	11	12	PH
Interface	Type of connection	Features	Cable (isolate	unused	cores i	ndividua	ılly befo	re initia	l start-ι	ıp)						
3, 4, 7, 8	1, 2, A, B, E, F	SET, DIR, SinCos	Signal:	0 V	+V	C+	C-	D+	D-	SET	DIR	Α	Ā	В	B	Ţ
3, 4, 7, 0	1, 2, А, Б, Е, Г	or incr. RS422	Core color:	WH	BN	GN	YE	GY	PK	BU	RD	ВК	VT	GY-PK	RD-BU	shield
Interface	Type of connection	Features	M23 connecto	r, 12-pir	1											
2 4 7 0	3, 4	SET, DIR, SinCos	Signal:	0 V	+V	C+	C-	D+	D-	SET	DIR	Α	Ā	В	B	Ť
3, 4, 7, 8	ა, 4	or incr. RS422	Pin:	1	2	3	4	5	6	7	8	9	10	11	12	PH
Interface	Type of connection	Features	Cable (isolate	unused	cores i	ndividua	ılly befo	re initia	l start-ι	ıp)						
	10105	SinCos o. incr. RS422	Signal:	0 V	+V	C+	C-	D+	D-	Α	Ā	В	B	0 Vsens	+Vsens	Ť
6, 9	1, 2, A, B, E, F	sensor output	Core color:	WH	BN	GN	YE	GY	PK	BU	RD	ВК	VT	GY-PK	RD-BU	shield
Interface	Type of connection	Features	M23 connecto	r, 12-pir	1											
6.0	2.4	SinCos o. incr. RS422	Signal:	0 V	+V	C+	C-	D+	D-	Α	Ā	В	B	0 Vsens	+Vsens	Ť
6, 9	3, 4	sensor output	Pin:	1	2	3	4	5	6	7	8	9	10	11	12	PH
Interface	Type of connection	Features	M12 connector, 8-pin													
1.2	F 6	SET, DIR	Signal:	0 V	+V	C+	C-	D+	D-	SET	DIR		Ť			
1, 2 5, 6		SEI, DIN	Pin:	1	2	3	4	5	6	7	8		PH			

+V: Supply voltage encoder +V DC
0 V: Supply voltage encoder 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.

 $\begin{array}{ll} \text{C+, C-:} & \text{Clock signal} \\ \text{D+, D-:} & \text{Data signal} \end{array}$

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

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]

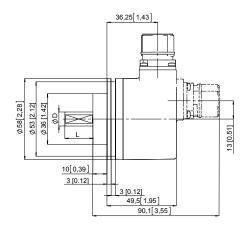
Clamping flange, ø 58 [2.28] Flange type 1 and 3

(drawing with M23 connector)

1 3 x M3, 6 [0.24] deep

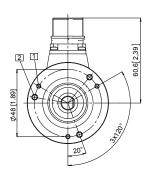
2 3 x M4, 8 [0.32] deep

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



60,5[2,38]

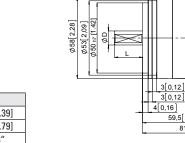
36,25[1,43]

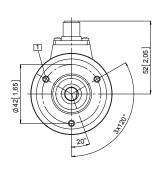


Synchro flange, ø 58 [2.28] Flange type 2 and 4

(drawing with M12 connector)

1 3 x M4, 6 [0.24] deep



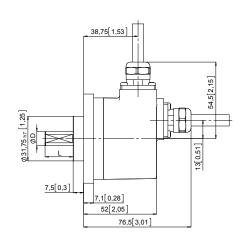


D	Fit	L
6 [0.24]	h7	10 [0.39]
10 [0.39]	f7	20 [0.79]
1/4"	h7	7/8"
3/8"	h7	7/8"

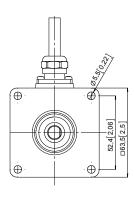
Square flange, \square 63.5 [2.5] Flange type 5 and 7

(drawing with cable)

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



81,5[3,21]





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Dimensions hollow shaft version

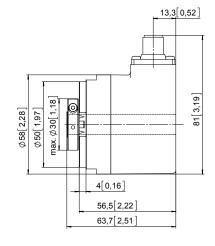
Dimensions in mm [inch]

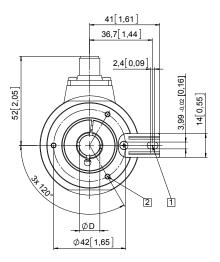
Flange with spring element, long Flange type 1 and 2

(drawing with M12 connector)

- Slot spring element, recommendation: torque pin DIN 7, ø 4 [0.16]
- 2 3 x M3, 6 [0.24] deep
- 3 Recommended torque for the clamping ring 0.6 Nm

D	Fit
10 [0.39]	H7
12 [0.47]	H7
14 [0.55]	H7
15 [0.59] *)	H7
3/8"	H7
1/2"	H7
*) Blind hollow shaft, insertion depth max. = 30 mm [1.18"]	

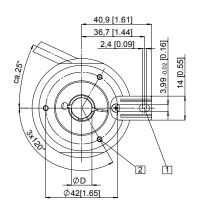


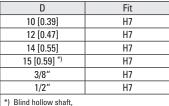


(drawing with tangential cable)

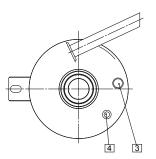
- Slot spring element, recommendation: torque pin DIN 7, ø 4 [0.16]
- 2 3 x M3, 5.5 [0.22] deep
- 3 Status-LED
- 4 SET button
- [5] Recommended torque for the clamping ring 0.6 Nm

52[2,05]	Ø50[1,97] max.Ø33[1,3]		
	5	56,5 [2,22] 64,5 [2,54]	
		71,7 [2,82]	











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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

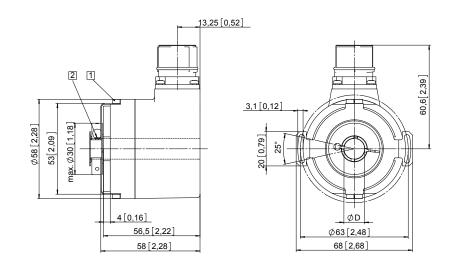
Pitch circle diameter for fixing screws 63 [2.48]

(drawing with M23 connector)

- 1 Fixing screws DIN 912 M2,5 x 6 (washer included in delivery)
- 2 Recommended torque for the clamping ring 0.6 Nm

D	Fit
10 [0.39]	H7
12 [0.47]	H7
14 [0.55]	H7
15 [0.59] *)	H7
3/8"	H7
1/2"	H7
*) Blind hollow shaft,	

insertion depth max. = 30 mm [1.18"]



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

D	Fit
10 [0.39]	H7
12 [0.47]	H7
14 [0.55]	H7
15 [0.59] *)	H7
3/8"	H7
1/2"	H7
*\ Dlind hallow sheft	

Blind hollow shaft. insertion depth (L) max. = 30 mm [1.18"]

