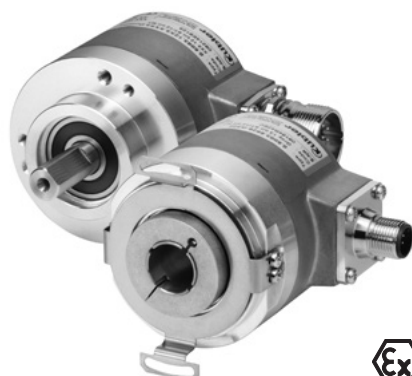


Absolute encoders – multiturn

**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.



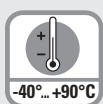
Mechanical drive



Safety-Lock™



High rotational speed



Temperature range



High protection level



High shaft load capacity



Shock / vibration resistant



Magnetic field proof



Reverse polarity protection



SinCos

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
Type

.XXXX.XXX2X
a b c d e f g

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.

10 by 10

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⁾

b Shaft (ø x L), with flat

- 1 = 6 x 10 mm [0.24 x 0.39"]²⁾**
2 = 10 x 20 mm [0.39 x 0.79"]³⁾
3 = 1/4" x 7/8"
4 = 3/8" x 7/8"

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

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-pin⁴⁾
6 = radial M12 connector, 8-pin⁴⁾

*) 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)

e Code

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

f Resolution⁵⁾

- 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

g Options (service)

- 1 = no option
2 = status LED
3 = SET button and status LED

Optional on request

- Ex 2/22⁶⁾
- 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:
8.5863.32X6.XX22-C



stainless steel V4A:
8.5863.32X6.XX22-V4A

1) US version.

2) Preferred type only in conjunction with flange type 2.




3) Preferred type only in conjunction with flange type 1.

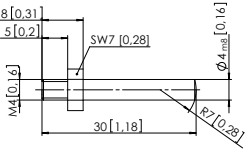
4) Only in conjunction with interface type 1 and 2.

5) Resolution, preset value and counting direction factory-programmable.

6) For the cable connection type, cable material PUR.

Absolute encoders – multiturn

| Standard mechanical multiturn, optical | Sendix 5863 / 5883 (shaft / hollow shaft) | SSI / BiSS + incremental |
|---|--|--|
| Order code Hollow shaft | <div> <div>8.5883</div> <div>Type</div> <div> <div>X</div><div>X</div><div>X</div><div>X</div> <div>X</div><div>X</div><div>2</div><div>X</div> <div>a</div><div>b</div><div>c</div><div>d</div> <div>e</div><div>f</div><div>g</div> </div> </div> | <div> If for each parameter of an encoder the <u>underlined preferred option</u> 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. </div> <div>  </div> |
| <div> 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"] <u>5 = with stator coupling, IP65 ø 63 mm [2.48"]</u> 6 = with stator coupling, IP67 ø 63 mm [2.48"] </div> <div> b Through hollow shaft 3 = ø 10 mm [0.39"] <u>4 = ø 12 mm [0.47"]</u> 5 = ø 14 mm [0.55"] 8 = ø 3/8" 9 = ø 1/2" <i>Blind hollow shaft</i> <i>(insertion depth max. 30 mm [1.18"])</i> 6 = ø 15 mm [0.59"] </div> | <div> d Type of connection 2 = radial cable, 1 m [3.28'] PVC B = radial cable, special length PVC *) <u>E = tangential cable, 1 m [3.28'] PVC</u> F = tangential cable, special length PVC *) <u>4 = radial M23 connector, 12-pin</u> 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) </div> | <div> e Code B = SSI, binary C = BiSS, binary <u>G = SSI, gray</u> </div> <div> g Options (service) 1 = no option 2 = status LED <u>3 = SET button and status LED</u> </div> <div> i Resolution ¹⁾ A = 10 bit ST + 12 bit MT 1 = 11 bit ST + 12 bit MT 2 = 12 bit ST + 12 bit MT <u>3 = 13 bit ST + 12 bit MT</u> 4 = 14 bit ST + 12 bit MT 7 = 17 bit ST + 12 bit MT </div> |
| <div> c Interface / power supply 1 = SSI, BiSS / 5 V DC <u>2 = SSI, BiSS / 10 ... 30 V DC</u> 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 </div> | <div> 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) </div> <div> Salt spray tested / stainless steel V4A as standard types (deliverable as from 1 unit) <div>  salt spray tested: 8.5883.24X6.XX22-C 8.5883.25X6.XX22-C </div> <div>  stainless steel V4A: 8.5883.24X6.XX22-V4A </div> </div> | |

| | | |
|---|---|---|
| Mounting accessory 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 for hollow shaft encoders | | Order no. |
| Cylindrical pin, long for flange with spring element (flange type 1 + 2) | with fixing thread  | 8.0010.4700.0000 |
| Connection technology | | Order no. |
| Cordset, pre-assembled | M12 female connector with coupling nut, 8-pin 2 m [6.56'] PVC cable M23 female connector with coupling nut, 12-pin 2 m [6.56'] PVC cable | 05.00.6041.8211.002M 8.0000.6901.0002.0031 |
| Connector, self-assembly (straight) | M12 female connector with coupling nut, 8-pin M23 female connector with coupling nut, 12-pin | 05.CMB 8181-0 8.0000.5012.0000 |

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.

- 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.

Absolute encoders – multitrans

| | | |
|--|--|---------------------------------|
| Standard mechanical multitrans, optical | Sendix 5863 / 5883 (shaft / hollow shaft) | SSI / BiSS + incremental |
|--|--|---------------------------------|

Technical data

| Mechanical characteristics | | |
|--|--|---|
| Maximum speed 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 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 | | |
| at 20°C [68°F] | IP65 | < 0.01 Nm |
| | 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. to EN 60529 | | |
| | housing side | IP67 |
| | shaft side | IP65, opt. IP67 |
| Working temperature 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 resistance acc. to EN 60068-2-27 | | |
| 2500 m/s ² , 6 ms | | |
| Vibration resistance acc. to EN 60068-2-6 | | |
| 100 m/s ² , 55 ... 2000 Hz | | |

| Electrical characteristics | | |
|--|----------------|------------|
| Power supply | | |
| 5 V DC (+5%) or 10 ... 30 V DC | | |
| Current consumption (no load) | | |
| | 5 V DC | max. 80 mA |
| | 10 ... 30 V DC | 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 no. E224618 | | |
| 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 | typ. 3.8 V |
| | LOW at I _{Load} = 20 mA | typ. 1.3 V |
| Resolution singleturn | | |
| 10 ... 14 bit and 17 bit | | |
| Number of revolutions (multitrans) | | |
| 4096 (12 bit) | | |
| Code | | |
| binary or gray | | |
| SSI clock rate | | |
| 50 kHz ... 2 MHz | | |
| Data refresh rate | | |
| | ST resolution ≤ 14 bit | ≤ 1 μs |
| | ST resolution ≥ 15 bit | 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 | | |
|--|----------------------------------|------------|
| Output driver | | |
| RS485 transceiver type | | |
| Permissible load / channel | | |
| max. +/- 20 mA | | |
| Signal level | | |
| | HIGH | typ. 3.8 V |
| | LOW at I _{Load} = 20 mA | typ. 1.3 V |
| Resolution singleturn | | |
| 10 ... 14 bit and 17 bit | | |
| Number of revolutions (multitrans) | | |
| 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 | | |
| | ST resolution ≤ 14 bit | ≤ 1 μs |
| | ST resolution 17 bit | 2.4 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 multitrans (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 V _{pp} (±20 %) | HIGH: min. 2.5 V LOW: max. 0.5 V |
| Short circuit proof | | |
| | yes ²⁾ | yes ²⁾ |
| Pulse rate | | |
| | 2048 ppr | 2048 ppr |

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.

Absolute encoders – multiturn

| Standard mechanical multiturn, optical | | Sendix 5863 / 5883 (shaft / hollow shaft) | | SSI / BiSS + incremental | |
|--|--|---|---|--------------------------|--|
| 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 | | | |
| <p>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.</p> <p>If this input is not used, it should be connected to 0 V (Encoder ground GND) in order to avoid interferences.</p> | | | | | |
| DIR input | | | | | |
| <p>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.</p> <p>The LED will come ON and the status output will switch to LOW.</p> <p>If this input is not used, it should be connected to 0 V (Encoder ground GND) in order to avoid interferences.</p> | | | | | |
| Response time (DIR input) | | | | 1 ms | |
| Power-ON | | | | | |
| <p>After Power-ON the device requires a time of approx. 150 ms before valid data can be read.</p> <p>Hot plugging of the encoder should be avoided.</p> | | | | | |

Absolute encoders – multiturn

| | | |
|---|--|---------------------------------|
| Standard mechanical multiturn, optical | Sendix 5863 / 5883 (shaft / hollow shaft) | SSI / BiSS + incremental |
|---|--|---------------------------------|

Terminal assignment

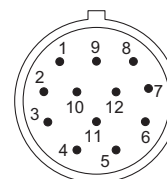
| Interface | Type of connection | Features | Cable (isolate unused cores individually before initial start-up) | | | | | | | | | | | | | |
|------------|--------------------|--|---|-----|----|----|----|----|----|-----|-----------|------|-----------|--------|-----------|--------|
| 1, 2 | 1, 2, A, B, E, F | SET, DIR, Status | Signal: | 0 V | +V | C+ | C- | D+ | D- | SET | DIR | Stat | N/C | N/C | N/C | ⊥ |
| | | | Core color: | WH | BN | GN | YE | GY | PK | BU | RD | BK | - | - | - | shield |
| Interface | Type of connection | Features | M23 connector, 12-pin | | | | | | | | | | | | | |
| 1, 2 | 3, 4 | SET, DIR, Status | Signal: | 0 V | +V | 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 | 12 | PH |
| Interface | Type of connection | Features | Cable (isolate unused cores individually before initial start-up) | | | | | | | | | | | | | |
| 5 | 1, 2, A, B, E, F | SET, DIR, Status sensor output | Signal: | 0 V | +V | C+ | C- | D+ | D- | SET | DIR | Stat | N/C | 0Vsens | +Vsens | ⊥ |
| | | | Core color: | WH | BN | GN | YE | GY | PK | BU | RD | BK | - | GY-PK | RD-BU | shield |
| Interface | Type of connection | Features | M23 connector, 12-pin | | | | | | | | | | | | | |
| 5 | 3, 4 | SET, DIR, Status sensor output | Signal: | 0 V | +V | C+ | C- | D+ | D- | SET | DIR | Stat | N/C | 0Vsens | +Vsens | ⊥ |
| | | | Pin: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | PH |
| Interface | Type of connection | Features | Cable (isolate unused cores individually before initial start-up) | | | | | | | | | | | | | |
| 3, 4, 7, 8 | 1, 2, A, B, E, F | SET, DIR, SinCos or incr. RS422 | Signal: | 0 V | +V | C+ | C- | D+ | D- | SET | DIR | A | \bar{A} | B | \bar{B} | ⊥ |
| | | | Core color: | WH | BN | GN | YE | GY | PK | BU | RD | BK | VT | GY-PK | RD-BU | shield |
| Interface | Type of connection | Features | M23 connector, 12-pin | | | | | | | | | | | | | |
| 3, 4, 7, 8 | 3, 4 | SET, DIR, SinCos or incr. RS422 | Signal: | 0 V | +V | C+ | C- | D+ | D- | SET | DIR | A | \bar{A} | B | \bar{B} | ⊥ |
| | | | Pin: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | PH |
| Interface | Type of connection | Features | Cable (isolate unused cores individually before initial start-up) | | | | | | | | | | | | | |
| 6, 9 | 1, 2, A, B, E, F | SinCos o. incr. RS422 sensor output | Signal: | 0 V | +V | C+ | C- | D+ | D- | A | \bar{A} | B | \bar{B} | 0Vsens | +Vsens | ⊥ |
| | | | Core color: | WH | BN | GN | YE | GY | PK | BU | RD | BK | VT | GY-PK | RD-BU | shield |
| Interface | Type of connection | Features | M23 connector, 12-pin | | | | | | | | | | | | | |
| 6, 9 | 3, 4 | SinCos o. incr. RS422 sensor output | Signal: | 0 V | +V | C+ | C- | D+ | D- | A | \bar{A} | B | \bar{B} | 0Vsens | +Vsens | ⊥ |
| | | | 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 | 5, 6 | SET, DIR | Signal: | 0 V | +V | C+ | C- | D+ | D- | SET | DIR | ⊥ | | | | |
| | | | Pin: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | PH | | | | |

+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
 A, \bar{A} : Incremental output channel A (cosine)
 B, \bar{B} : Incremental output channel B (sine)
 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

Absolute encoders – multiturn

Standard mechanical multiturn, optical

Sendix 5863 / 5883 (shaft / hollow shaft)

SSI / BiSS + incremental

Dimensions shaft version

Dimensions in mm [inch]

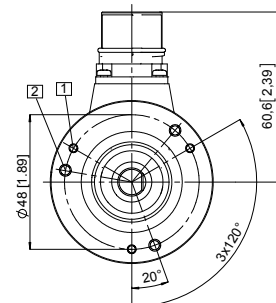
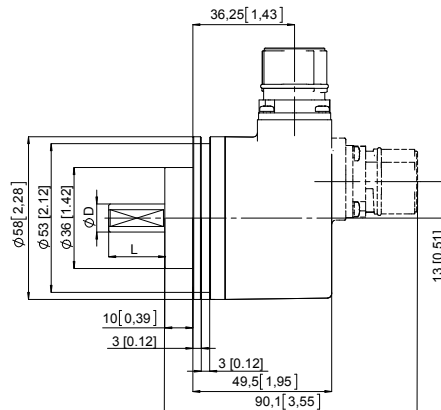
Clamping flange, ø 58 [2.28]

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" |



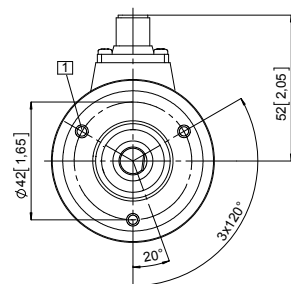
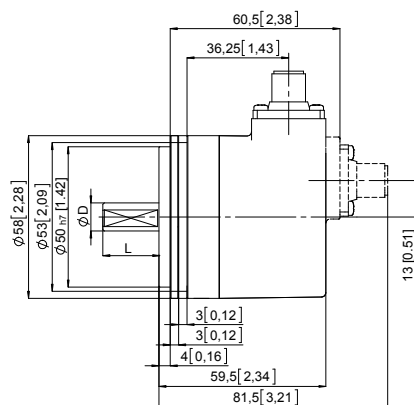
Synchro flange, ø 58 [2.28]

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" |

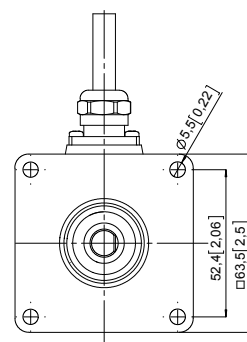
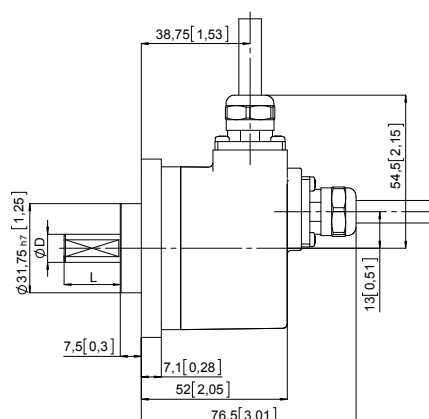


Square flange, □ 63.5 [2.5]

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" |



Absolute encoders – multiturn

Standard mechanical multiturn, optical

Sendix 5863 / 5883 (shaft / hollow shaft)

SSI / BiSS + incremental

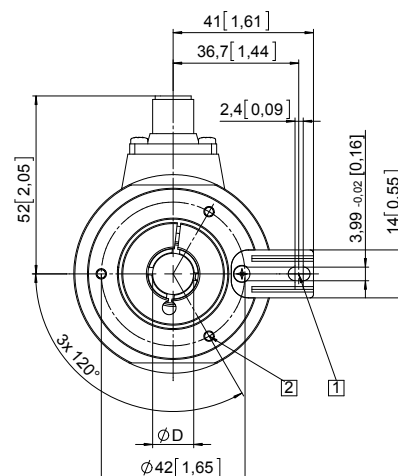
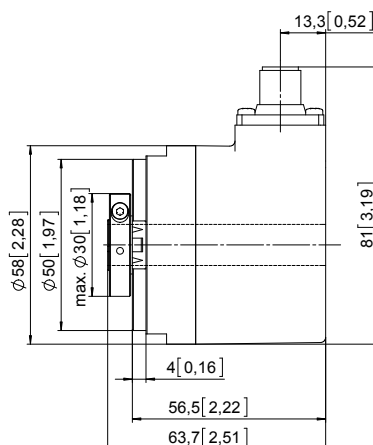
Dimensions hollow shaft version

Dimensions in mm [inch]

Flange with spring element, long Flange type 1 and 2

(drawing with M12 connector)

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

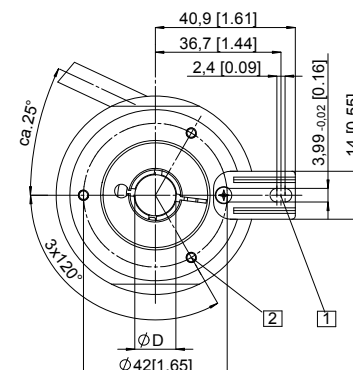
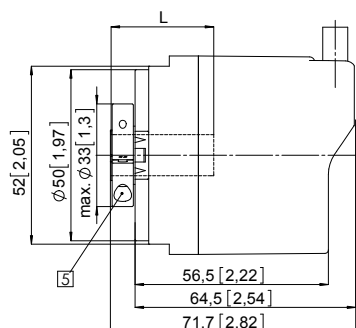


| D | Fit |
|--------------|-----|
| 10 [0.39] | H7 |
| 12 [0.47] | H7 |
| 14 [0.55] | H7 |
| 15 [0.59] *) | H7 |
| 3/8" | H7 |
| 1/2" | H7 |

*) Blind hollow shaft, insertion depth max. = 30 mm [1.18"]

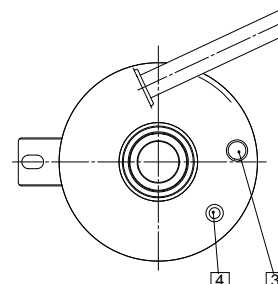
(drawing with tangential cable)

- 1 Slot spring element, recommendation: cylindrical pin DIN 7, $\varnothing 4$ [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



| 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"]



Absolute encoders – multiturn

Standard mechanical multiturn, optical

Sendix 5863 / 5883 (shaft / hollow shaft)

SSI / BiSS + incremental

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

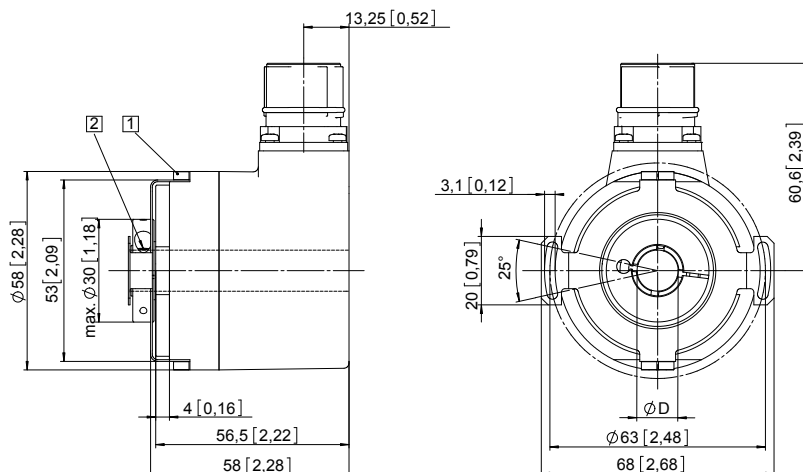
63 [2.48]

(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 |

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

