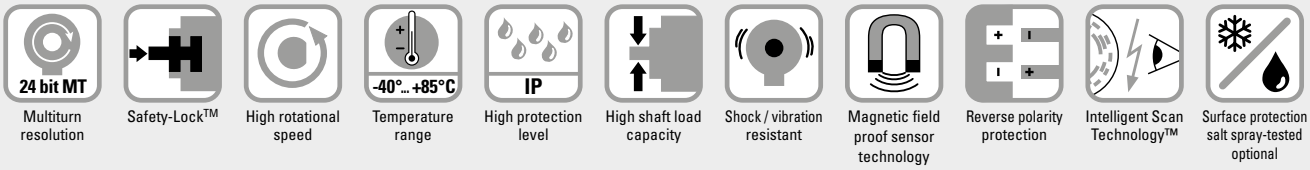
**Standard**
**electronic multiturn, optical** | **Sendix F5863 / F5883 (shaft / hollow shaft)** | **SSI / BiSS + incremental**



**The Sendix F58 Multiturn with patented Intelligent Scan Technology™ is a particularly high-resolution optical multiturn encoder without gears and with magnetically insensitive sensor technology.**

**41 bits total resolution, through hollow shaft up to 15 mm and versions with additional SinCos or RS422 incremental track.**




## Reliable and insensitive

- Sturdy bearing construction in Safety-Lock™ design for resistance against vibration and installation errors.
- Ideal for use outdoors thanks to IP67 protection and wide temperature range from -40 °C up to +85 °C.
- Patented Intelligent Scan Technology™ with all singleturn and multiturn functions on one single OptoASIC - offering highest reliability.
- High resolution up to 41 bits and magnetically insensitive sensor technology.

## 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.
- High resolution feedback in real-time via incremental outputs SinCos and RS422.
- Short control cycles, clock frequency with SSI up to 2 MHz / with BiSS up to 10 MHz.

## Order code Shaft version

| 8.F5863 | . | X | X | X | X | . | X | X | X | X |
|---|---|---|---|---|---|---|---|---|---|---|
| Type | | a | b | c | d | | e | f | g | h |

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"]

**b** *Shaft (ø x L), with flat*
**1 = 6 x 10 mm [0.24 x 0.39"]** 1)
**2 = 10 x 20 mm [0.39 x 0.79"]** 2)
3 = 1/4" x 7/8"
4 = 3/8" x 7/8"

**c** *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

**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 3)
6 = radial M12 connector, 8-pin 3)

*) 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.F5863.122A.G323.0030 (for cable length 3 m)

**e** *Code*
B = SSI, binary
C = BiSS, binary
**G = SSI, gray**

**f** *Resolution (singleturn)* 4)
B = 9 bit ST
A = 10 bit ST
1 = 11 bit ST
2 = 12 bit ST
**3 = 13 bit ST**
4 = 14 bit ST
7 = 17 bit ST

**g** *Resolution (multiturn)* 4)
**2 = 12 bit MT**
6 = 16 bit MT
4 = 24 bit MT

**h** *Options (service)*
1 = no option
2 = status LED
**3 = SET button and status LED**

*Optional on request*
- Ex 2/22 5)
- surface protection salt spray tested
- other resolutions

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

© Fritz Kübler GmbH, subject to errors and changes. 07/2026

**Standard**
**electronic multiturn, optical** | **Sendix F5863 / F5883 (shaft / hollow shaft)** | **SSI / BiSS + incremental**

## Order code Hollow shaft

8.F5883 . X X X X . X X X X
Type — a b c d — e f g h

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 = 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** *Through hollow shaft*
3 = ø 10 mm [0.39"]
**4 = ø 12 mm [0.47"]**
5 = ø 14 mm [0.55"]
6 = ø 15 mm [0.59"]
8 = ø 3/8"
9 = ø 1/2"

**c** *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

**d** *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.F5883.542B.G323.0030 (for cable length 3 m)

**e** *Code*
B = SSI, binary
C = BiSS, binary
**G = SSI, gray**

**f** *Resolution (singleturn)* [1)]
B = 9 bit ST
A = 10 bit ST
1 = 11 bit ST
2 = 12 bit ST
**3 = 13 bit ST**
4 = 14 bit ST
7 = 17 bit ST

**g** *Resolution (multiturn)* [1)]
**2 = 12 bit MT**
6 = 16 bit MT
4 = 24 bit MT

**h** *Options (service)*
1 = no option
2 = status LED
**3 = SET button and status LED**

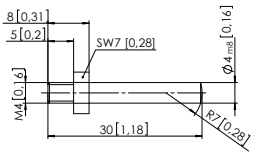
*Optional on request*
- Ex 2/22 (not for type of connection E, F) [3)]
- surface protection salt spray tested
- other resolutions

## Mounting accessory for shaft encoders

| | | Order no. |
|---|---|---|
| **Coupling** | bellows coupling ø 19 mm [0.75"] for shaft 6 mm [0.24"] | **8.0000.1102.0606** |
| | bellows coupling ø 19 mm [0.75"] for shaft 10 mm [0.39"] | **8.0000.1102.1010** |

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

| | | Order no. |
|---|---|---|
| **Torque pin, ø 4 mm**<br>for flange with spring element<br>(flange type 1) | with fixing thread | **8.0010.4700.0000** |




## Cables and connectors

| | | Order no. |
|---|---|---|
| **Preassembled cables** | M12 female connector with coupling nut, 8-pin, A coded, straight<br>single-ended<br>2 m [6.56'] PVC cable | **05.00.6041.8211.002M** |
| | M23 female connector with coupling nut, 12-pin, cw<br>single-ended<br>2 m [6.56'] PVC cable | **8.0000.6901.0002.0031** |
| **Connectors** | M12 female connector with coupling nut, 8-pin, A coded, straight (metal) | **05.CMB 8181-0** |
| | M23 female connector with coupling nut, 12-pin, cw | **8.0000.5012.0000** |

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) Can be combined only with Interface 1 and 2.
3) For the cable connection type, cable material PUR.


© Fritz Kübler GmbH, subject to errors and changes. 07/2026

**Standard**
**electronic multiturn, optical** | **Sendix F5863 / F5883 (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 | 3.0 x 10$^{-6}$ kgm$^2$ |
| | hollow shaft version | 6.0 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 ... +85 °C [-40 °F ... +185 °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

| | | |
|---|---|---|
| **Supply voltage** | | 5 V DC (+5%) or 10 ... 30 V DC |
| **Current consumption** (no load) | 5 V DC | max. 60 mA |
| | 10 ... 30 V DC | max. 30 mA |
| **Reverse polarity protection of the supply voltage** | | yes (at 10 ... 30 V DC) |
| **Short circuit proof outputs** | | yes [2] |

### SSI interface

| | | |
|---|---|---|
| **Output driver** | | RS422 transceiver type |
| **Permissible load / channel** | | max. +/- 30 mA |
| **Signal level** | HIGH | typ 3.8 V |
| | LOW at $I_{Load}$ = 20 mA | typ 1.3 V |
| **Resolution singleturn** | | 10 ... 17 bit |
| **Number of revolutions** (multiturn) | | max. 24 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** | | RS422 transceiver type |
| **Permissible load / channel** | | max. +/- 30 mA |
| **Signal level** | HIGH | typ 3.8 V |
| | LOW at $I_{Load}$ = 20 mA | typ 1.3 V |
| **Resolution singleturn** | | 10 ... 17 bit |
| **Number of revolutions** (multiturn) | | max. 24 bit |
| **Code** | | binary |
| **BiSS 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 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<br>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 0 V or to output; if supply voltage correctly applied.

© Fritz Kübler GmbH, subject to errors and changes. 07/2026

**Standard**
**electronic multiturn, optical** | **Sendix F5863 / F5883 (shaft / hollow shaft)** | **SSI / BiSS + incremental**

## SET input

| | | |
|---|---|---|
| **Input** | | active HIGH |
| **Input type** | | comparator |
| **Signal level** (+V = supply voltage) | HIGH | min. 60 % of +V, max: +V |
| | LOW | max. 30 % of +V |
| **Input current** | | < 0.5 mA |
| **Min. pulse duration** (SET) | | 10 ms |
| **Input delay** | | 1 ms |
| **New position data readable after** | | 1 ms |
| **Internal processing time** | | 200 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, after which the new position data can be read via SSI or BiSS. Once the SET function has been triggered, the encoder requires an internal processing time of typ. 200 ms; during this time the supply voltage must not be switched off.
The SET function should be carried out whilst the encoder is at rest.

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 DIR is changed when the device is already switched on, then this will be interpreted as an error. 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.

| | |
|---|---|
| **Response time** (DIR input) | 1 ms |

## 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.

## Approvals

| | |
|---|---|
| **UL compliant** in accordance with | File no. E224618 |
| **CE compliant** in accordance with | |
| EMC Directive | 2014/30/EU |
| RoHS Directive | 2011/65/EU |
| ATEX Directive | 2014/34/EU (for Ex 2/22 variants) |


© Fritz Kübler GmbH, subject to errors and changes. 07/2026

**Standard**
**electronic multiturn, optical** | **Sendix F5863 / F5883 (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 | ERR\ | 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 | ERR\ | 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 | Signal: | 0 V | +V | C+ | C- | D+ | D- | SET | DIR | ERR\ | N/C | 0 Vsens | +Vsens | ⏚ |
| | | sensor output | 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 | Signal: | 0 V | +V | C+ | C- | D+ | D- | SET | DIR | ERR\ | N/C | 0 Vsens | +Vsens | ⏚ |
| | | 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 individually before initial start-up) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3, 4, 7, 8 | 1, 2, A, B, E, F | SET, DIR, SinCos | Signal: | 0 V | +V | C+ | C- | D+ | D- | SET | DIR | A | $\overline{A}$ | B | $\overline{B}$ | ⏚ |
| | | or incr. RS422 | 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 | Signal: | 0 V | +V | C+ | C- | D+ | D- | SET | DIR | A | $\overline{A}$ | B | $\overline{B}$ | ⏚ |
| | | or incr. RS422 | Pin: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | PH |

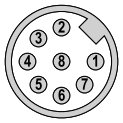
| Interface | Type of connection | Features | Cable (isolate unused cores individually before initial start-up) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 1, 2, A, B, E, F | SinCos o. incr. RS422 | Signal: | 0 V | +V | C+ | C- | D+ | D- | A | $\overline{A}$ | B | $\overline{B}$ | 0 Vsens | +Vsens | ⏚ |
| | | sensor output | 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 | 3, 4 | SinCos o. incr. RS422 | Signal: | 0 V | +V | C+ | C- | D+ | D- | A | $\overline{A}$ | B | $\overline{B}$ | 0 Vsens | +Vsens | ⏚ |
| | | sensor output | Pin: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | PH |

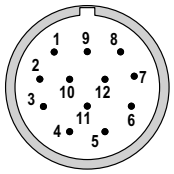
| Interface | Type of connection | Features | M12 connector, 8-pin | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1, 2 | 5, 6 | SET, DIR | Signal: | 0 V | +V | C+ | C- | D+ | D- | SET | DIR | ⏚ | |
| | | | Pin: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | PH | |

+V: Supply voltage encoder +V DC
0 V: Supply voltage encoder ground GND (0 V)
0 $V_{sens}$ / +$V_{sens}$: 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, $\overline{A}$: Incremental output channel A (cosine)
B, $\overline{B}$: Incremental output channel B (sine)
SET: Set input
DIR: Direction input
ERR\: Status output
PH ⏚: Plug connector housing (shield)

**Top view of mating side, male contact base**




M12 connector, 8-pin




M23 connector, 12-pin

© Fritz Kübler GmbH, subject to errors and changes. 07/2026

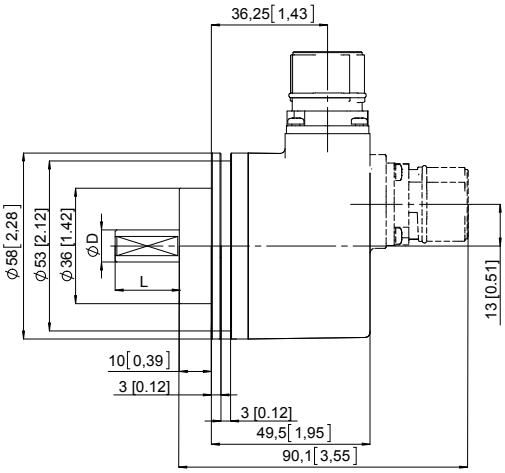
**Standard**
**electronic multiturn, optical** | **Sendix F5863 / F5883 (shaft / hollow shaft)** | **SSI / BiSS + incremental**

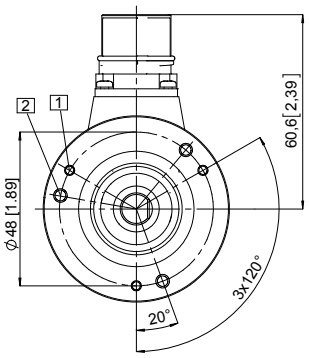
## Dimensions shaft version

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

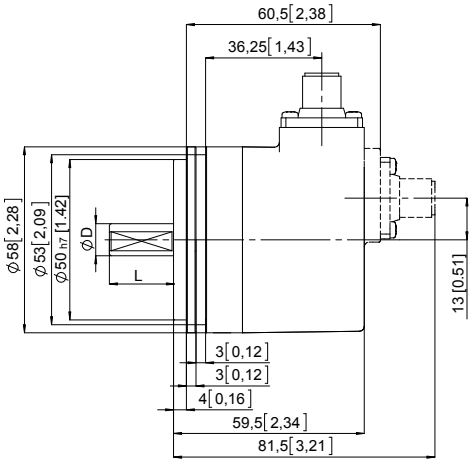


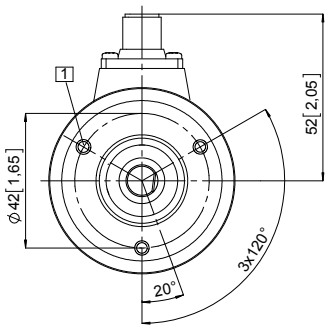




| D | Fit | L |
|---|---|---|
| 6 [0.24] | h7 | 10 [0.39] |
| 10 [0.39] | f7 | 20 [0.79] |
| 1/4“ | h7 | 7/8“ |
| 3/8“ | h7 | 7/8“ |

**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“ |


© Fritz Kübler GmbH, subject to errors and changes. 07/2026

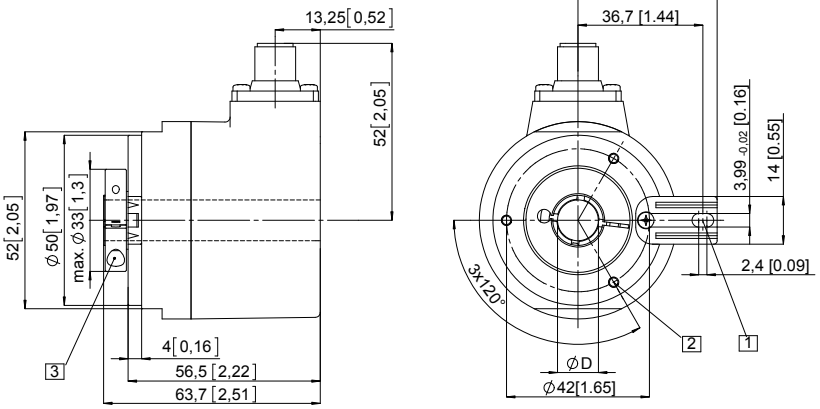
**Standard**
**electronic multiturn, optical** | **Sendix F5863 / F5883 (shaft / hollow shaft)** | **SSI / BiSS + incremental**

## Dimensions hollow shaft version

Dimensions in mm [inch]

**Flange with spring element, long**
**Flange type 1 and 2**
(drawing with M12 connector)

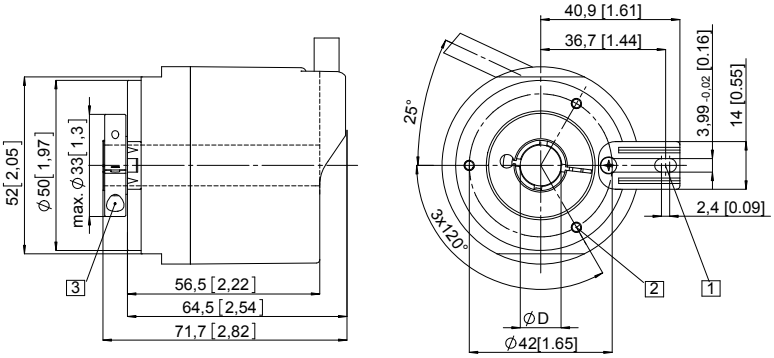
1 Slot spring element, recommendation: torque pin DIN 7, ø 4 [0.16]
2 3 x M3, 5.5 [0.22] deep
3 Recommended torque for the clamping ring 0.6 Nm




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

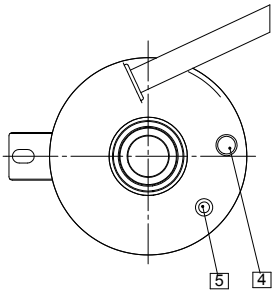
(drawing with tangential cable)

1 Slot spring element, recommendation: torque pin DIN 7, ø 4 [0.16]
2 3 x M3, 5.5 [0.22] 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 |

4 Status-LED
5 SET button




© Fritz Kübler GmbH, subject to errors and changes. 07/2026

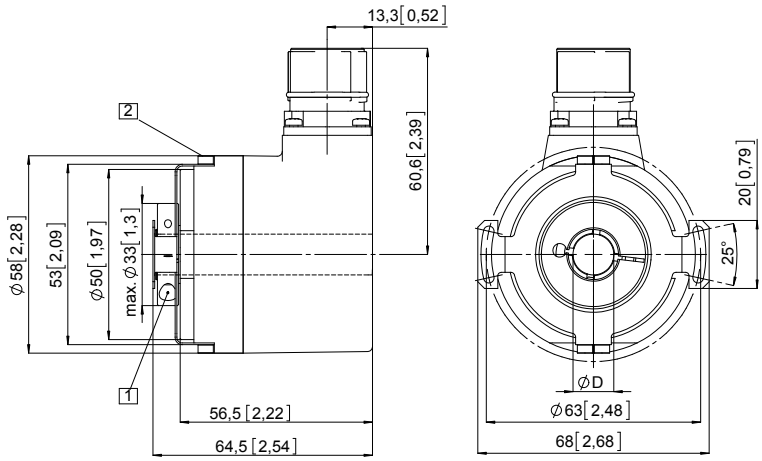
**Standard**
**electronic multiturn, optical** | **Sendix F5863 / F5883 (shaft / hollow shaft)** | **SSI / BiSS + incremental**

## 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 mm [2.48]
(drawing with M23 connector)

1 Recommended torque for the clamping ring 0.6 Nm
2 Fixing screws (4x) DIN 912 M3 x 8 (washer included in delivery)

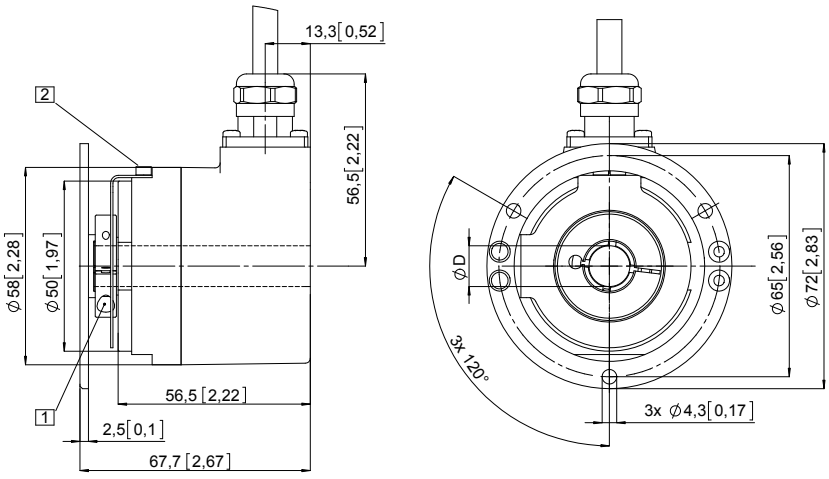



| D | Fit |
|---|---|
| 10 [0.39] | H7 |
| 12 [0.47] | H7 |
| 14 [0.55] | H7 |
| 15 [0.59] | H7 |
| 3/8“ | H7 |
| 1/2“ | H7 |

**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
2 Fixing screws (2x) DIN 912 M3 x 8 (washer included in delivery)




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


© Fritz Kübler GmbH, subject to errors and changes. 07/2026