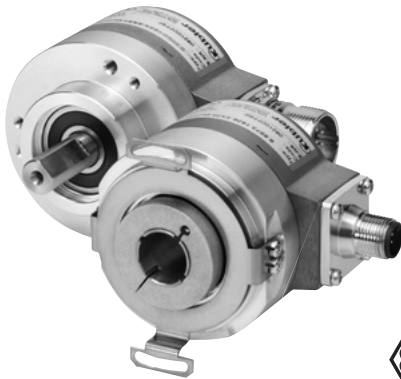


Absolute encoders - singleturn

Standard optical

Sendix 5853 / 5873 (shaft / hollow shaft)

SSI / BiSS



The Sendix 5853 and Sendix 5873 singleturn encoders with optical sensor technology can achieve a resolution of max. 21 bits.

Easy integration in the application thanks to the BiSS interface, with electronic data sheet.

This series offers special versions for use on direct drives for the lift technology.



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 +90°C.

Versatile

- High-precision with a data refresh rate of the position value $\leq 1\mu\text{s}$.
- High-resolution feedback in real-time via 21 bit fully digital or incremental outputs SinCos and RS422.
- BiSS-C BP3 encoder profile.
- Short control cycles, clock rate with SSI up to 2 MHz / with BiSS up to 10 MHz.

Order code Shaft version

8.5853 . **XXXX** . **XX2X**
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.



a Flange

- 1** = clamping flange, IP65 \varnothing 58 mm [2.28"]
- 3** = clamping flange, IP67 \varnothing 58 mm [2.28"]
- 2** = synchro flange, IP65 \varnothing 58 mm [2.28"]
- 4** = synchro flange, IP67 \varnothing 58 mm [2.28"]
- 5** = square flange, IP65 \square 63.5 mm [2.5"]
- 7** = square flange, IP67 \square 63.5 mm [2.5"]

b Shaft ($\varnothing \times L$), 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 / 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-pin³⁾
- 6** = radial M12 connector, 8-pin³⁾

*) 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.: 8.5853.112A.G323.0030 (for cable length 3 m)

e Code

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

f Resolution⁴⁾

- A** = 10 bit
- 1** = 11 bit
- 2** = 12 bit
- 3** = 13 bit
- 4** = 14 bit
- 7** = 17 bit
- C** = 21 bit⁵⁾

g Inputs / outputs⁴⁾

- 2** = SET, DIR input
additional status output

h Options (service)

- 1** = no option
 - 2** = status LED
 - 3** = SET button and status LED
- Optional on request*
- Ex 2/22⁶⁾
 - 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) Only in conjunction with interface 1 or 2 and code C.
6) For the cable connection type, cable material PUR.

Absolute encoders - singleturn

| | | |
|-------------------------|--------------------------------------------------|-------------------|
| Standard optical | Sendix 5853 / 5873 (shaft / hollow shaft) | SSI / BiSS |
|-------------------------|--------------------------------------------------|-------------------|

| | | | |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Order code | 8.5873 | .XXXX.XX2X | 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. |
| Hollow shaft | Type | a b c d e f g h a b c d e f g h | |
| a Flange | 1 = with spring element, long, IP65 2 = with spring element, long, IP67 3 = with stator coupling, IP65 \varnothing 65 mm [2.56"] 4 = with stator coupling, IP67 \varnothing 65 mm [2.56"] <u>5 = with stator coupling, IP65 \varnothing 63 mm [2.48"]</u> 6 = with stator coupling, IP67 \varnothing 63 mm [2.48"] E = with stator coupling, IP65 mounting without screws ¹⁾ F = with stator coupling, IP67 mounting without screws ¹⁾ G = with stator coupling, IP65 \varnothing 72 mm [2.83"] ¹⁾ H = with expanding coupling, IP65 \varnothing 65 mm [2.56"] ¹⁾ | 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 | e Code B = SSI, binary C = BiSS, binary <u>G = SSI, gray</u> |
| b Hollow shaft | 3 = \varnothing 10 mm [0.39"] K = \varnothing 10 mm [0.39"], with tapered shaft <u>4 = \varnothing 12 mm [0.47"]</u> 5 = \varnothing 14 mm [0.55"] 6 = \varnothing 15 mm [0.59"] 8 = \varnothing 3/8" 9 = \varnothing 1/2" | 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⁾ | f Resolution ³⁾ A = 10 bit 1 = 11 bit 2 = 12 bit <u>3 = 13 bit</u> 4 = 14 bit 7 = 17 bit C = 21 bit ⁴⁾ |
| c Hollow shaft | 3 = \varnothing 10 mm [0.39"] K = \varnothing 10 mm [0.39"], with tapered shaft <u>4 = \varnothing 12 mm [0.47"]</u> 5 = \varnothing 14 mm [0.55"] 6 = \varnothing 15 mm [0.59"] 8 = \varnothing 3/8" 9 = \varnothing 1/2" | *) 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.: 8.5873.542B.G323.0030 (for cable length 3 m) | g Inputs / outputs ³⁾ <u>2 = SET, DIR input</u> additional status output |
| d Hollow shaft | 3 = \varnothing 10 mm [0.39"] K = \varnothing 10 mm [0.39"], with tapered shaft <u>4 = \varnothing 12 mm [0.47"]</u> 5 = \varnothing 14 mm [0.55"] 6 = \varnothing 15 mm [0.59"] 8 = \varnothing 3/8" 9 = \varnothing 1/2" | h Options (service) 1 = no option 2 = status LED <u>3 = SET button and status LED</u> | Optional on request - Ex 2/22 (not with type of connection E or F) ⁵⁾ - surface protection salt spray tested - other resolutions |

Absolute encoders singleturn

| Mounting accessory for shaft encoders | | Order no. |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Coupling | bellows coupling \varnothing 19 mm [0.75"] for shaft 6 mm [0.24"] bellows coupling \varnothing 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 torque stops | with fixing thread | 8.0010.4700.0000 |
| Connection technology | | Order no. |
| Connector, self-assembly (straight) | M12 female connector with coupling nut M23 female connector with coupling nut | 05.CMB 8181-0 8.0000.5012.0000 |
| Cordset, pre-assembled | 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.

1) Can be combined only with shaft K and type of connection E or F.
 2) Can be combined only with interface 1 and 2.
 3) Resolution, preset value and counting direction factory-programmable.

4) Only in conjunction with interface 1 or 2 and code C.
 5) For the cable connection type, cable material PUR.

Absolute encoders - singleturn

| | | |
|-------------------------|--------------------------------------------------|-------------------|
| Standard optical | Sendix 5853 / 5873 (shaft / hollow shaft) | SSI / BiSS |
|-------------------------|--------------------------------------------------|-------------------|

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. 0.35 kg [12.35 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⁾ |
| Materials | | |
| | shaft/hollow shaft | stainless steel |
| | flange | aluminium |
| | housing | zinc die-cast |
| | cable | PVC |
| Shock resistance acc. EN 60068-2-27 | | |
| | | 2500 m/s ² , 6 ms |
| Vibration resistance acc. 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. 70 mA |
| | 10 ... 30 V DC | max. 45 mA |
| Reverse polarity protection of the power supply | | |
| | | yes |
| Short circuit proof outputs | | |
| | | yes ²⁾ |
| UL approval | | |
| | | file 224618 |
| CE compliant acc. to | | |
| | | EMC guideline 2004/108/EC 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 | | |
| | | 10 ... 14 bit and 17 bit |
| Code | | |
| | | binary or gray |
| SSI clock rate | | |
| | | 50 kHz ... 2 MHz |
| 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. | | |
| Data refresh rate | | |
| | resolution ≤ 14 bit | ≤ 1 μs |
| | resolution ≥ 15 bit | 4 μs |

| 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 | | |
| | | 10 ... 14 bit; 17, 19 and 21 bit |
| Code | | |
| | | binary |
| Clock rate | | |
| | | 50 kHz ... 10 MHz |
| Max. update rate | | |
| | | < 15 μs, depends on the clock rate and the data length |
| Data refresh rate | | |
| | | < 1 μs |
| Protocol | | |
| | | BiSS-C BP3 encoder profile |
| Note: | | |
| | <ul style="list-style-type: none"> - Bidirectional, factory programmable parameters are: resolution, code, direction, alarms and warnings - CRC data verification - EDS (electronic data sheet) | |

| 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.

| Status output and LED | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Output driver | | |
| | | open collector, internal pull up resistor 22 kΩhm |
| 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 kΩhm). | | |
| An active status output (LOW) displays: | | |
| | <ul style="list-style-type: none"> - Sensor error, singleturn or multeturn (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. | | |

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

Absolute encoders - singleturn

| | | |
|-------------------------|--------------------------------------------------|-------------------|
| Standard optical | Sendix 5853 / 5873 (shaft / hollow shaft) | SSI / BiSS |
|-------------------------|--------------------------------------------------|-------------------|

| 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 |

DIR 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.

Power-ON time
 After Power-ON the encoder requires a time of approx. 150 ms before valid data can be read.
 Avoid encoder hot-plugging.

Terminal assignment

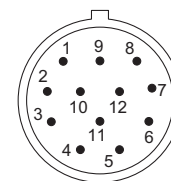
| Interface | Type of connection | Features | Cable (isolate unused wires individually before initial start-up) |
|------------|--------------------|----------------------------------------|--------------------------------------------------------------------------|
| 1, 2 | 1, 2, A, B, E, F | SET, DIR, Status | Signal: 0 V +V C+ C- D+ D- SET DIR Stat N/C N/C N/C \perp |
| | | | Cable colour: WH BN GN YE GY PK BU RD BK - - - shield |
| 1, 2 | 3, 4 | SET, DIR, Status | M23 connector |
| | | | Signal: 0 V +V C+ C- D+ D- SET DIR Stat N/C N/C N/C \perp |
| 5 | 1, 2, A, B, E, F | SET, DIR, Status sensor output | Cable (isolate unused wires individually before initial start-up) |
| | | | Signal: 0 V +V C+ C- D+ D- SET DIR Stat N/C 0Vsens +Vsens \perp |
| 5 | 3, 4 | SET, DIR, Status sensor output | M23 connector |
| | | | Signal: 0 V +V C+ C- D+ D- SET DIR Stat N/C 0Vsens +Vsens \perp |
| 3, 4, 7, 8 | 1, 2, A, B, E, F | SET, DIR, SinCos or incr. RS422 | Cable (isolate unused wires individually before initial start-up) |
| | | | Signal: 0 V +V C+ C- D+ D- SET DIR A \bar{A} B \bar{B} \perp |
| 3, 4, 7, 8 | 3, 4 | SET, DIR, SinCos or incr. RS422 | M23 connector |
| | | | Signal: 0 V +V C+ C- D+ D- SET DIR A \bar{A} B \bar{B} \perp |
| 6, 9 | 1, 2, A, B, E, F | SinCos o. incr. RS422 sensor output | Cable (isolate unused wires individually before initial start-up) |
| | | | Signal: 0 V +V C+ C- D+ D- A \bar{A} B \bar{B} 0Vsens +Vsens \perp |
| 6, 9 | 3, 4 | SinCos o. incr. RS422 sensor output | M23 connector |
| | | | Signal: 0 V +V C+ C- D+ D- A \bar{A} B \bar{B} 0Vsens +Vsens \perp |
| 1, 2 | 5, 6 | SET, DIR | M12 connector |
| | | | Signal: 0 V +V C+ C- D+ D- SET DIR \perp |

- +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. The current position becomes defined as position zero.
- DIR: Direction input: If this input is active, output values are counted backwards (decrease) when the shaft is turning clockwise.
- Stat: Status output
- PH \perp : Plug connector housing (shield)

Top view of mating side, male contact base



M12 connector, 8-pin



M23 connector, 12-pin

Absolute encoders - singleturn

Standard optical

Sendix 5853 / 5873 (shaft / hollow shaft)

SSI / BiSS

Dimensions shaft version

Dimensions in mm [inch]

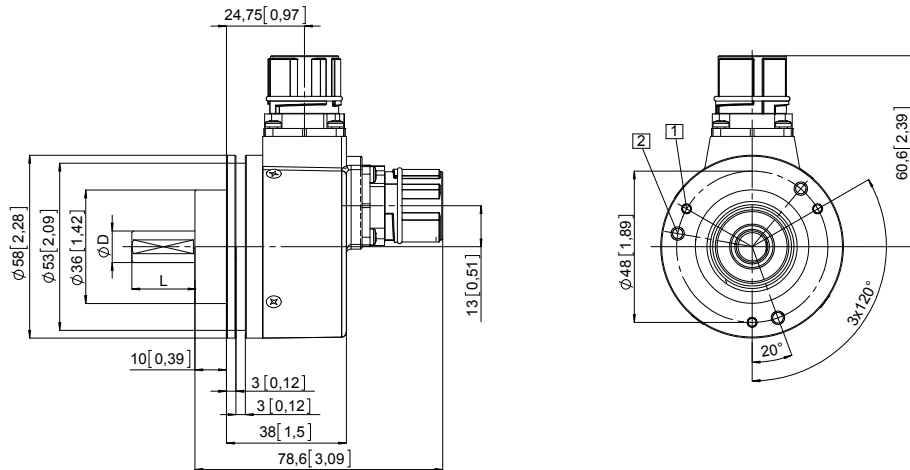
Clamping flange, \varnothing 58 [2.28]

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 |



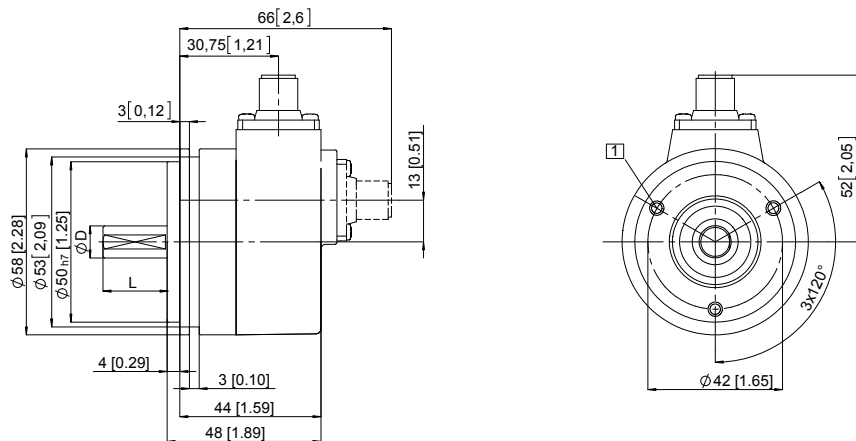
Synchro flange, \varnothing 58 [2.28]

Flange type 2 and 4

(drawing with M12 connector)

- 1 3 x M4, 6 [0.24] 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 |

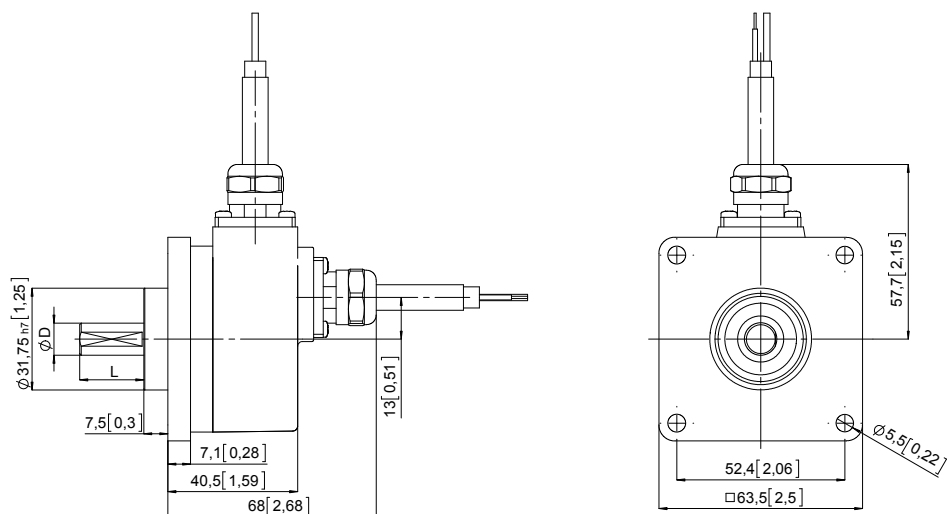


Square flange, \square 63.5 [2.5]

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 |



Absolute encoders - singleturn

| | | |
|-------------------------|--------------------------------------------------|-------------------|
| Standard optical | Sendix 5853 / 5873 (shaft / hollow shaft) | SSI / BiSS |
|-------------------------|--------------------------------------------------|-------------------|

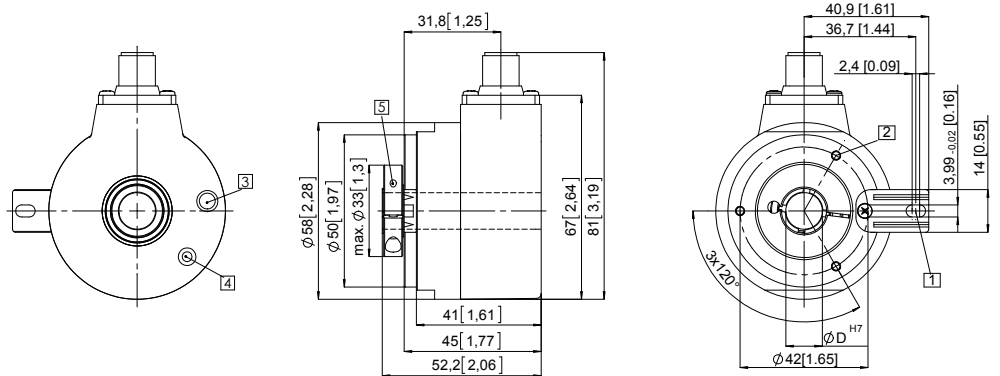
Dimensions hollow shaft version

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, \varnothing 4 [0.16]
- 2 3 x M3, 5.5 [0.21] deep
- 3 Status-LED
- 4 SET button
- 5 Recommended torque for the clamping ring 0.6 Nm

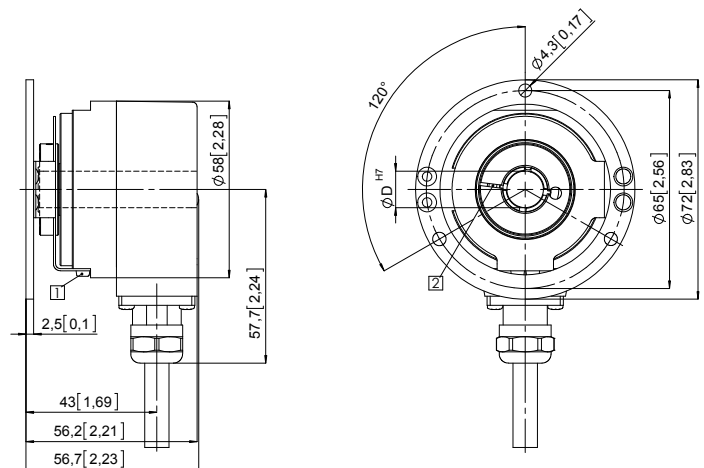


Flange with stator coupling, \varnothing 65 [2.56]

Flange type 3 and 4

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

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

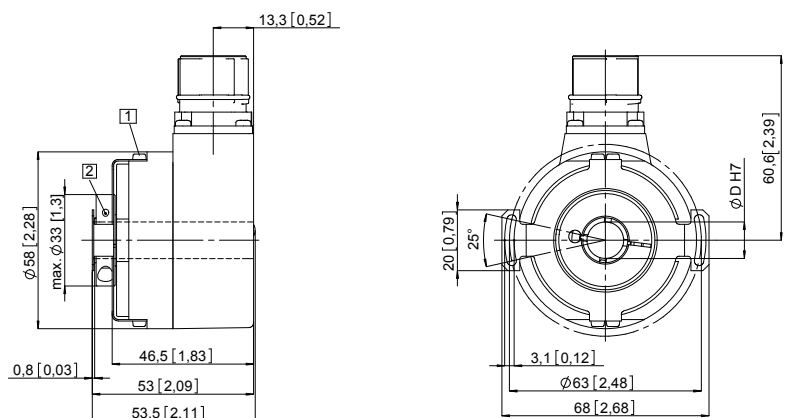


Flange with stator coupling, \varnothing 63 [2.48]

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



Absolute encoders - singleturn

Standard optical

Sendix 5853 / 5873 (shaft / hollow shaft)

SSI / BiSS

Dimensions hollow shaft version

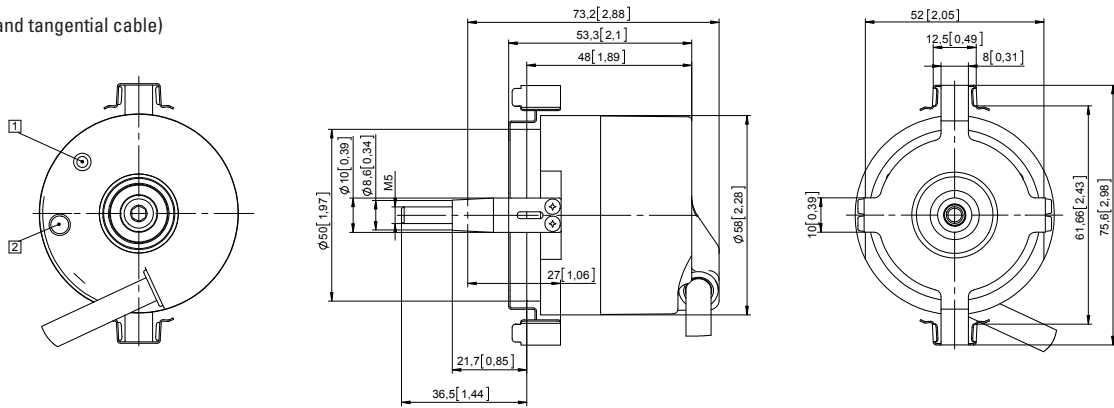
Dimensions in mm [inch]

Flange with stator coupling, mounting without screws

Flange type E and F

(with tapered shaft K and tangential cable)

- 1 Status LED
- 2 SET button

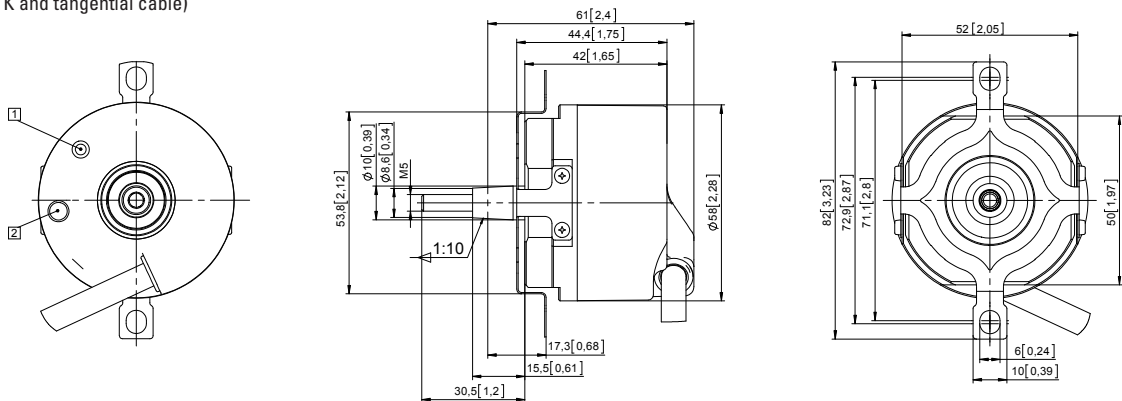


Flange with stator coupling, $\varnothing 72 [2.83]$

Flange type G

(with tapered shaft K and tangential cable)

- 1 Status LED
- 2 SET Button



Flange with expanding coupling, $\varnothing 65 [2.56]$

Flange type H

- 1 Recommended torque for (SW 2) tightening screw 1 Nm
- 2 Recommended torque for (SW 4) tightening screw 3 ± 0.5 Nm
- 3 Status-LED
- 4 SET button

