KUEBLER - ABSOLUTE-CODED ANGULAR TRANSMITTER SENDIX F3653 / F3673, OPTICAL, SSI, Ø36 MM

SERIE F3653





- Housing diameter Ø36 mm
- SSI-Interface
- 17 bit resolution
- -40 to +90 ° C working temperature

Product description

Sendix F3653 / F3673 is a series of single-axis optical axial and hole axle outputs with SSI interface and a resolution of up to 17 bits, despite its compact size of 36x42 mm. The sensor also has high enclosure class, shock resistance and a wide temperature range. The sensor is therefore very suitable for applications where extreme environments or temperatures can occur, such as mobile applications. The sensor is supplied with a tangential cable, which means that there is no exposed cable input on the sensor, but it is embedded in the housing itself to increase impact on impact and impact. The Sendix F3653 / F3673 is also available in a salt water resistant version.

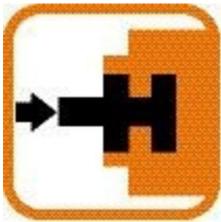
Please refer to the images below for ordering information.

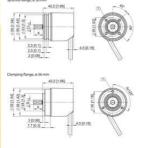
| Order code 8.F3653 Shaft version | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • Flange 1 = clamping flange, IP67, \emptyset 36 mm [1.42"] 3 = clamping flange, IP65, \emptyset 36 mm [1.42"] 2 = synchro flange, IP67, \emptyset 36 mm [1.42"] 4 = synchro flange, IP65, \emptyset 36 mm [1.42"] • Shaft (\emptyset x L), with flat 1 = \emptyset 6 x 12.5 mm [0.24 x 0.49"] 3 = \emptyset 8 x 15 mm [0.22 x 0.59"] 5 = \emptyset 10 x 20 mm [0.39 x 0.79"] 2 = \emptyset 1/4" x 12.5 mm [0.49"] 4 = \emptyset 3/8" x 5/8" | Interface / power supply SSI, BiSS / 5 V DC SSI, BiSS / 5 V DC SSI, BiSS / 10 30 V DC SSI, BiSS + 2048 ppr. SinCos / 5 V DC SSI, BiSS + 2048 ppr. SinCos / 10 30 V DC SSI, BiSS + 2048 ppr. SinCos / 5 V DC, with sensor output SSI, BiSS + 2048 ppr. SinCos / 5 V DC, with sensor output SSI, BiSS + 2048 ppr. RS422 / 5 V DC SSI, BiSS + 2048 ppr. RS422 / 10 30 V DC Type of connection I = tangential cable, 1 m [3.28] PUR a tangential cable, 5 m [16.40] PUR F = tangential cable, special length PUR *) axial M12 connector, 8-pin ¹⁰ | Code B = SSI, binary C = BiSS, binary G = SSI, gray Resolution A = 10 bit 2 = 12 bit 3 = 13 bit 4 = 14 bit 7 = 17 bit Optional on request sufface protection salt spray tested |
| | *) Available special lengths (connection type F): 2, 3, 8, 10, 15 m [6.56, 9.84, 26.25, 32.80, 49.21'] order code expansion .XXXX = length in dm ex.: 8.F3653.432F.G312.0030 (for cable length 3 m) | - other resolutions |

| Order code 8.F3673 Hollow shaft | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flange = with spring element, short, IP65 = with spring element, long, IP65 = with stator coupling, IP65, ø 46 mm [1.81"] Through hollow shaft = ø 6 mm [0.34"] = ø 8 mm [0.32"] = ø 1/4" Blind hollow shaft (insertion depth max. 14.5 mm [0.57"]) | Interface / power supply SSI, BISS / 5 V DC SSI, BISS / 5 V DC SSI, BISS / 2048 ppr. SinCos / 5 V DC SSI, BISS + 2048 ppr. SinCos / 5 V DC SSI, BISS + 2048 ppr. SinCos / 5 V DC, with sensor output SSI, BISS + 2048 ppr. SinCos / 5 V DC, with sensor output SSI, BISS + 2048 ppr. SinCos / 5 V DC, with sensor output SSI, BISS + 2048 ppr. RS422 / 5 V DC SSI, BISS + 2048 ppr. RS422 / 10 30 V DC Type of connection tangential cable, 1 m [3.28] PUR a tangential cable, 5 m [16.40] PUR F angential cable, 5 m [16.40] PUR F axial M12 connector, 8-pin ¹¹ Available special lengths (connection type F): 2, 3, 8, 10, 15 m [6.56, 9.84, 26.25, 32.80, 49.21'] order code expansion .XXXX = length in dm ex.: 8.F3673.242F.G312.0030 (for cable length 3 m) | Code B = SSI, binary C = BiSS, binary G = SSI, gray Resolution A = 10 bit 2 = 12 bit 3 = 13 bit 4 = 14 bit 7 = 17 bit Optional on request - surface protection salt spray tested - other resolutions |

Specifications

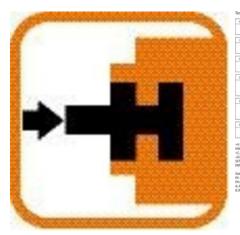
| Connection Thread | Cable |
|------------------------|------------|
| Housing diametre | 36 |
| IP Class | IP65, IP67 |
| Mounting | Shoulder |
| Output | SSI |
| Sensor type | Absolute |
| Shaft Diameter max | 10 |
| Shaft Diameter min | 6 |
| Supply Voltage DC Max | 30 |
| Supply Voltage DC Min | 5 |
| Temperature range from | -40 |
| Temperature range to | 90 |
| Version | Singleturn |





Y Z 1 m 150 mm 5 m 150 mm

| | Interface | Type of convection | Features | Cable | | | | | | | | | | | | | |
|--------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------|-----------|----------|----------|-----------|----------|----------|------------|------------------------|---------|-------------|-------------------|--------------|-------------|
| | | - | SSI or BISS. | Signal | GND | 1. | N. | +C | -0 | 1 | +0 [| -0 | SET | 10 | 1.8 | Stat | Pf. |
| | 1,2 | 1,3 | SET, DIR, Status | Cable colour: | WH | 8 | N | GN | YE | 1 | GY | PK. | 80 | | ID | VT | Shiel |
| | interface | Type of connection | Features | M12 connector | | | | | | | | | - | | | | |
| | 1.2 | 5 | SSL or BISS, | Signal: GND | | | +4 | | - < | +0 | | Ð | SET | 10 | OR Shield | | MIPE. |
| | 1.4 | | SET, DIR | M12 connector | 1 | | 2 | | 4 | | 5 | 6 | - 7 | | 8 | PH | |
| | Interface | Type of connection | Features | Cable | | | | | | | | | | | | | |
| | 3.4 | 1.3 | SSI or BISS, | Signal | GND | +16 | ۰C | -0 | +D | -0 | SET | DIR | A | Aim | 8 | Bin | PE |
| | | 1,1,2 | SET, DIR 2048 SinCos | Cable colour | WH | 8N | GN | YE | GY | PK | 80 | RD | 8K | VT | GT-PR | 80-8U | Shiek |
| | Interface | Type of connection | Features | Cable | | | | | | | | | | - | | | _ |
| | | 1, 3 | SSI or BISS, | Signal: | GND | +V. | ÷C | -< | ۰D | -0 | SET | DR | GNDane | | +V _{ant} | | PE |
| 14] deep n the cable) | 5 | | SET DIR. Sensor outputs | Cable colour. | WH | 8N | GN | YE | GY | PK | 90 | RD | | 7 | RC | HBU | Shiek |
| | interface | Type of connection | Features | Cuble | | | | | | | | | | | | | |
| | 6 | 1,3 | SSI or BISS, 2048 SinCos Sensor outputs | Signal: Cable colour | GND WH | +V BN | +C GN | -C 17E | +0 GY | -0 PK | GND, BU | +V _{um} RD | A BK | A unu VT | B GY PK | 8 m 10 80 | PE Shiek |
| | Interface | Type of connection | | Cable | | | | | - | | - | | | - | | | - |
| | | | SSI or BSS. | Signal: | GND | | +C | -0 | +D | -0 | A | Am | | | ite. | | |
| | 2,8 1,3 | | 2048 incr. R5422 | Cable colour | WH | 6N | GN | vi | GY | PK | 88 | | GY-PK | | -813 | Shield | |
| | GND Enc +C, -C Co +D, -D: Dat SET Set DIR Diri bac Stat: Stat PE Pro | ck signal a signal input. The current rction input. If this | y: +V DC y: ground GND (IVI) position becomes defin imput is active, output i when the shaft is turn | values are court | | 1 | lop vi | ew of | 4 7 | 938 | e mal | -1 -7 | act bi | ise | | | |



| interface. | Type of connection | Features | Cable | | | | | | | | | | | | | | |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|------|-----|----|-----|-------|----|-------|------------------|----------|------|-------|--------|--------|--|
| 1.2 | 1.3 | SSI or B/SS, | Signal | GND | 1 | W | +C | -0 | | +0 | -0 | SET | | IRR. | 5tat . | PE | |
| ~ | 1949 1949 | SET, DIR, Status | Cable colour: | WH I | 8 | N | GN | YE | 1 | GY | PK . | BU | 1.0 | ID | ٧ſ | Shiek | |
| interface | Type of connection | Features | M12 connector | | | | | | | | | | | | | | |
| 1.2 | 5 | SSL or BISS, | Signal: | GND | | N. | ×C. | -C | | +D | Ð | SET | 1 | XR | Shie | M/PE | |
| 115 | | SET, DIR | M12 connector | 1 | | 2 | .1 | - 4 | | 5 | 6 | 7 | | .8 | | PH | |
| Interface | Type of connection | Features | Cable | | | | | | | | | | | | | - | |
| 3.4 | | SSI or BISS. | Signal | GND | +12 | +C | - 0 | +D | -0 | SET | DR | A | Aim | 8 | Bin | PE | |
| 3,4 | 1,3 | SET, DIR, 2048 SINCos | Cable colour | WH | 8N | GN | YE | GY | PK | 80 | 80 | 8K | VT | GT-PR | 80-8U | Shield | |
| Interface | Type of connection | Features | Cable | | | | | | _ | | | | | | | | |
| 5 | 1,3 | SSI or BISS. | Signal: | GND | +1 | +C | - | +D | -0 | SET | DR | GN | here | | | PE | |
| | | SET DIR. | Cable colour. | WH | 8N | GN | YE | GY. | PK | 80 | RD | 1 | 7 | | | Shield | |
| | | Sensor outputs | | | | | | | | | | | | | | _ | |
| interface | Type of connection | Features | Cable | | | | | | | | | | | | | | |
| 1 | | SSI or BISS, | Signal: | GND | .vV | +C | -C | +0 | 0 | GND, | +V _{um} | A | Aw | 8 | Bire | PE | |
| 6 | 1,3 | 2048 SinCos | Cable colour: | WH | 8N | ON | YE | GY | PK | 80 | RD | BK. | VT | GY-PK | 80.80 | Shield | |
| | | Sensor outputs | | | | | _ | | _ | | | <u> </u> | _ | _ | | | |
| Interface | Type of connection | Features | Cable | | | | | | | | | | | | | | |
| 7.8 | 1.3 | SSI or BISS, | Signal: | GND | +11 | +C | -C | +D | -0 | A | Anv | 1.8 | | lee . | | | |
| | | 2048 incr. R5422 | Cable colour | WH | 6N | GN | VE | GY | PK | 88 | VT | GY-PK | RC | 181 | | | |
| CC. Ook DD: Dat T. Set R. Divis back at: Stat : Prof | is signal a signal input. The current ction input. If this iswards (decrease us output active earth a connector hous) | | values are court | | | | | 4 7 5 | 3 | 8 2 6 | 1 | | | | | | |
| | emental output c | | | | | | | | | | | | | | | | |
| e Plut | | | | | | | | 5 | | 6 | | | | | | | |

