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# KUEBLER - ABSOLUTE CODED ANGULAR TRANSMITTER SENDIX F3663 / F3683, OPTICAL, SSI, Ø36 MM

SERIE F3663



- Housing diameter Ø36 mm
- SSI / BiSS - interface
- Safety-Lock™
- Up to 17 + 24 bit resolution

## PRODUCT DESCRIPTION

Sendix F3663 / F3683 is a series of multivalved optical axial outputs with SSI interface and a resolution of up to 17 + 24 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 F3663 / F3683 is also available in a salt water resistant version.

Please refer to the images below for ordering information.

**Order code Shaft version** — 8.F3663 . X X X X . X X X 2 (Type: a b c d . e f g)

**a** *Flange*
1 = clamping flange, IP67, ø 36 mm [1.42"]
3 = clamping flange, IP65, ø 36 mm [1.42"]
2 = synchro flange, IP67, ø 36 mm [1.42"]
**4 = synchro flange, IP65, ø 36 mm [1.42"]**

**b** *Shaft (ø x L), with flat*
1 = ø 6 x 12.5 mm [0.24 x 0.49"]
**3 = ø 8 x 15 mm [0.32 x 0.59"]**
5 = ø 10 x 20 mm [0.39 x 0.79"]
2 = ø 1/4" x 12.5 mm [0.49"]
4 = ø 3/8" x 5/8"

**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 / 5 V DC
8 = SSI, BiSS + 2048 ppr. RS422 / 10 ... 30 V DC

**d** *Type of connection*
**1 = tangential cable, 1 m [3.28'] PUR**
3 = tangential cable, 5 m [16.40'] PUR
U = tangential cable, 10 m [32.81'] PUR
5 = tangential cable, 1 m [3.28'] PUR
with M12 connector for central fastening, 8-pin [1]

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

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

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

*Optional on request*
- surface protection salt spray tested
- other singleturn resolutions

**Order code Hollow shaft** — 8.F3683 . X X X X . X X X 2 (Type: a b c d . e f g)

**a** *Flange*
1 = with spring element, short, IP65
3 = with spring element, long, IP65
**2 = with stator coupling, IP65, ø 46 mm [1.81"]**

**b** *Through hollow shaft*
1 = ø 6 mm [0.24"]
3 = ø 8 mm [0.32"]
2 = ø 1/4"
*Blind hollow shaft (insertion depth max. 14.5 mm [0.57"])*
**4 = ø 10 mm [0.39"]**

**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 / 5 V DC
8 = SSI, BiSS + 2048 ppr. RS422 / 10 ... 30 V DC

**d** *Type of connection*
**1 = tangential cable, 1 m [3.28'] PUR**
3 = tangential cable, 5 m [16.40'] PUR
U = tangential cable, 10 m [32.81'] PUR
5 = tangential cable, 1 m [3.28'] PUR
with M12 connector for central fastening, 8-pin [1]

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

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

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

*Optional on request*
- surface protection salt spray tested
- other singleturn resolutions

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# TECHNICAL DATA

| | |
|---|---|
| **Connection** | Cable |
| **Housing diameter** | 36 mm |
| **IP class** | IP65, IP67 |
| **Mounting** | Shoulder |
| **Output** | SSI |
| **Sensor type** | Absolute |
| **Shaft diameter max** | 10 mm |
| **Shaft diameter min** | 6 mm |
| **Supply voltage dc max** | 30 V DC |
| **Supply voltage dc min** | 5 V DC |
| **Temperature operational max** | 90 °C |
| **Temperature operational min** | -40 °C |
| **Version** | Multiturn |









