## 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 Type		
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"] 5 Shaft (σ x L), with flat 1 = σ 6 x 12.5 mm [0.24 x 0.49"] 3 = σ 8 x 15 mm [0.32 x 0.59"] 5 = σ 10 x 20 mm [0.39 x 0.79"] 2 = σ 1/4" x 12.5 mm [0.49"] 4 = σ 3/8" x 5/8"	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 + 2048 ppr. SinCos / 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  1	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

Order code 8.F3673 . |X|X|X|X|.|X|X|12 **Hollow shaft** 0000 00 Flange O Code 6 Interface / power supply 1 = with spring element, short, IP65 1 = SSI, BiSS / 5 V DC B = SSI, binary 3 = with spring element, long, IP65 2 = SSI, BISS / 10 ... 30 V DC C = BiSS, binary 2 = with stator coupling, IP65, ø 46 mm [1.81"] 3 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC G = SSI, gray 4 = SSI, BiSS + 2048 ppr. SinCos / 10 ... 30 V DC Through hollow shaft 5 = SSI, BiSS / 5 V DC, with sensor output Resolution 1 = ø 6 mm [0.24"] 6 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC, with sensor output A = 10 bit 7 = SSI, BiSS + 2048 ppr. RS422 / 5 V DC 3 = ø 8 mm [0.32"] 2 = 12 bit2 = 0 1/4" 8 = SSI, BiSS + 2048 ppr. RS422 / 10 ... 30 V DC 3 = 13 bit Blind hollow shaft 4 = 14 bit (insertion depth max. 14.5 mm [0.57"]) Type of connection 7 = 17 bit1 = tangential cable, 1 m [3.28] PUR 4 = ø 10 mm [0.39"] 3 = tangential cable, 5 m [16.40] PUR Optional on request F = tangential cable, special length PUR \*) - surface protection 8 = axial M12 connector, 8-pin 1) salt spray tested - other resolutions \*) 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)

## **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	Singleturn

