## 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 Shaft version 8.F3653		
Tlange  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 (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"	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 = tangential cable, 1 m [3.28] PUR  3 = tangential cable, 5 m [16.40] PUR  F = tangential cable, special length PUR *)  8 = axial M12 connector, 8-pin *)  4 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)	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 XXXX . XX 12 8.F3673 . **Hollow shaft**

- Flange
- 1 = with spring element, short, IP65
- 3 = with spring element, long, IP65
- 2 = with stator coupling, IP65, ø 46 mm [1.81"]
- Through hollow shaft
- 1 = ø 6 mm [0.24"]
- 3 = ø 8 mm [0.32"]
- 2 = 0 1/4"

Blind hollow shaft

(insertion depth max. 14.5 mm [0.57"])

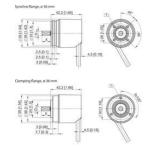
4 = ø 10 mm [0.39"]

- 6 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
- Type of connection
- 1 = tangential cable, 1 m [3.28] PUR
- 3 = tangential cable, 5 m [16.40] PUR
- F = tangential cable, special length PUR \*)
- 8 = axial M12 connector, 8-pin 1)
- \*) 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)

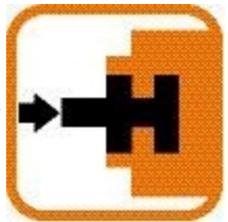
- Code
- B = SSI, binary
- C = BiSS, binary
- G = SSI, gray
- Resolution
- A = 10 bit
- 2 = 12 bit
- 3 = 13 bit
- 4 = 14 bit
- 7 = 17 bit
  - Optional on request
  - surface protection
  - salt spray tested
  - other resolutions

## Specifications

Housing diametre	36
IP Class	IP65, IP67
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







Interface:	Type of connection	Features	Cable													
1.2 1.3	2.2	55I or 8/55.	Signal:	GND		W.	10	-0		+0	-0	SET		DIR.	Stat .	PE
144	1.3	SET DIR Status	Cable colour:	WH	. 8	N	GN	YE		GY.	PK	BU	1	ID	VT	Shiek
Interface	Type of connection	Features	M12 connector													
1/2	50	55I or 8/55,	Signal:	GND +V		W	10 0			+D -D		SET		DIR Shie		M/PE
	- 80	SET, DIR	M12 connector 1		1 2		3		4		6	7	. 8		PH	
Interface	Type of connection	Features	Cable													
3,4 1,3	1.2	SSI or BISS,	Signal:	GND	+14	+C	-0	+D	-0	SET	DIR	A	Aim	8	B inv	PE
	1,10	SET DIR 2048 SINCos	Cable colour	WH	8N	GN	YE	GY	PK	80	80	8K	VT	GY-P8	RD-8U	Shield
Interface	Type of connection	Features	Cable													
-		SSI or BISS,	Signal:	GNO	+V	+C	-0	+D	-0	SET	DR	GN	Name .	+5	Carrie	PE
5	1,3	SET DIR, Sensor outputs	Cable colour.	WH	8N	GN	YE	GY	PK	80	RD	. ,	VT.		RD-BU	
interface	Type of connection	Features	Cable													
6 1,3		SSI or BISS,	Signal:	GNO	·W	+C	-0	+0	-0	GNO,	+V <sub>am</sub>	A	Ain		Bire	PE
	1,3	2048 SinCos	Cable colour:	WH	BN	CN	YE.	GY	PK	8U	RD	BK.	VT	GYPK	80 BU	Shield
	177.55	Sensor outputs						3500			1					
Interface	Type of connection	Features	Cable													
2.8	1, 3 SSI or BSS,	Signal:	GND	· W	+C	-0	+D	-0	A	Ain	(8)	- 1	lite	PE		
	103.	2048 incr. RS422	Cable colour	WH	6N	GN	YE	GY	PK	8K	VT	CY-PK	US-CR I		Shield	

GND: +C -C +D -D SET: DIR SEAC PE: PH: A. A ins

