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

**SERIE F3673** 

- 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 Type		
■ Flange  1 = clamping flange, IP67  3 = clamping flange, IP68  2 = synchro flange, IP67,  4 = synchro flange, IP65,  ■ Shaft (o x L), with flat  1 = o 6 x 12.5 mm [0.32 x 0.33 x 0.35 mm [0.32 x 0.35 mm [0.34 x 0.35 mm [0.34 x 0.35 mm [0.34 x 0.35 mm [0.35 x 0.35 mm [0	, ø 36 mm [1.42"] ø 36 mm [1.42"] ø 36 mm [1.42"] ø 36 mm [1.42"] 0.49"] 59"]	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, 5 m [16.40] 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.F3653.432F.G312.0030 (for cable length 3 m)	G 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

- 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

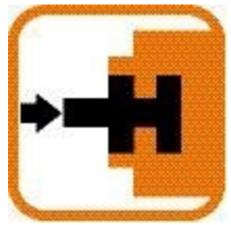
- A = 10 bit
- 2 = 12 bit
- 3 = 13 bit
- 4 = 14 bit 7 = 17 bit

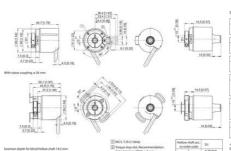
#### Optional on request

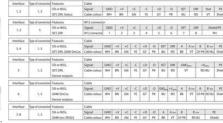
- surface protection
- salt spray tested - other resolutions

# Specifications

Connection Thread	Cable
Housing diametre	36
IP Class	IP65, IP67
Mounting	Hollow shaft
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

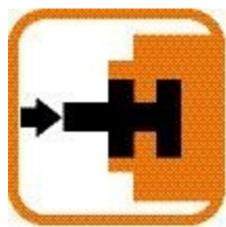












Interface	Type of connection	Features	Cable													
1.2	1,3	55I or 8/55,	Signal:	GND	1	W.	10	-0		+0	-0	SET		lik .	Stat .	PE
10.2	1,3	SET, DIR, Status	Cable colour:	WH	8	N	GN	YE		GY	PK	BU	1	ID	VI	Shield
interface	Type of connection	Features	M12 connector													
1.2	5	55t or 8/55;	Signal:	GND +V		W	1	< +		+D -D		SET		DIR Shiel		M/PE
	- *	SET, DIR	M12 connector 1		2		.3		4 5		6	7	.8		PH	
Interface	Type of connection	Features	Cable													
3,4 1,	1,3	SSI or BISS.	Signal:	GND	+47	+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	RD	8K	VT	GY-PX	80-BU	Shield
Interface	Type of connection	Features	Cable													
		SSI or BISS,	Signal:	GNO	+V +C -C +D -D SET DIR G		GN	ND <sub>iana</sub> +V		Carry	PE					
5	1,3	SET DIR. Sensor outputs	Cable colour.	WH	8N	GN	YE	GY	PK	90	RD	,	7	RD-BU		Shield
Interface	Type of connection	Features	Cable													
6	1,3	SSI or BISS,	Signal:	GNO	·W	+C	-0	+0	-0	GNO,	+Van	A	Am		Bire	PE
		2048 SinCos	Cable colour:	WH	BN	ON	YE	GY	PK	8U	RD	BK.	VT	CYPK	80 BU	Shield
	110.00	Sensor outputs		200				100								
Interface	Type of connection	Features	Cable													
2,8	1,3	SSI or BISS,	Signal:	GND			-0	A	Aim		Bire		PE			
	1.5	2048 incr. RS422	Cable colour	WH	6N	GN	YE	GY	PK	8K	VT	GY-PK	80	-BU	Shield	

Encoder power supply v1 DC.
GRID.
Encoder power supply ground GI
Encoder power supply ground g

