## 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			
<b>5</b> Flange 1 = clamping flange, IP67, ø 36 mm [1.42"] 3 = clamping flange, IP65, ø 36 mm [1.42"] 2 = synchro flange, IP65, ø 36 mm [1.42"] 4 = synchro flange, IP65, ø 36 mm [1.42"] <b>5</b> Shaft (ø x L), with flat 1 = ø 6 × 12.5 mm [0.24 × 0.49"] 3 = ø 8 × 15 mm [0.32 × 0.59"] 5 = ø 10 × 20 mm [0.39 × 0.79"] 2 = Ø 1/4" × 12.5 mm [0.49"] 4 = Ø 3/8" × 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 (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  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

## . XXXX . XXX 2 Order code 8.F3683 **Hollow shaft** • Interface / power supply 1 = SSI, BiSS / 5 V DC Flange 1 = with spring element, short, IP65 3 = with spring element, long, IP65 2 = SSI, BiSS / 10 ... 30 V DC 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 = ø 1/4"

Blind hollow shaft

(insertion depth max. 14.5 mm [0.57"]) 4 = ø 10 mm [0.39"]

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

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)

O Code

B = SSI, binary

C = BiSS, binary

G = SSI, gray

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

 Resolution (multiturn)

2 = 12 bit MT

6 = 16 bit MT

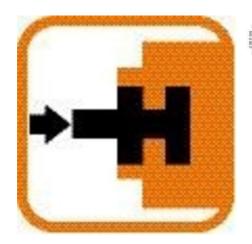
4 = 24 bit MT

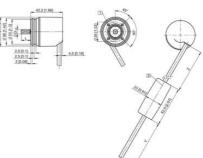
Optional on request

- surface protection salt spray tested
- other singleturn resolutions

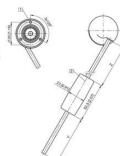
## Specifications

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	Multiturn





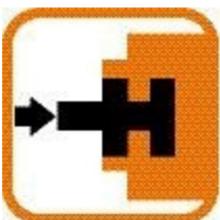




Interface	Type of connection	Features	Cable														
1.2	1.3	SSI or BISS.	Signal	GND		V	+C	-0	1	0	0	SET	0	iR	Stat	PE	
15.6	1,52	SET, DIR, Status	Cable colour	WH		N	GN	W		Y.	PK	BU		0	VT	Shield	
Interface	Type of connection	Features	M12 connector														
1.2		SSI or BISS.	Signal:	GND		V.	+C	-C		D	-0	SET	0	IR I	Shiel	d/PE	
1,2		SET DIR	M12 connector	1		2 3		4	5		6.	7		8 PI		н	
interface	Type of connection	Features	Cable														
3.4	1,3	SSI or BISS,	Signal:	GND	٠V	+C	-C	*D	0	SET	DIR	A	Ain	. 8	Birw	PE	
	1,3	SET, DIFL 2048 SINCos	Cable colour.	WH	BN	GN	YE	GY	PK	80	RD	8K	VT	GY-PK	RD-8U	Shield	
interface	Type of connection	Features	Cable														
		SSI or BISS.	Signal:	GND	+V	+C	-C	+D	0	SET	DIR	GNO	-	+1	-	PE	
5	1,3	SET DIR. Sensor outputs	Cable coloue	WH	BN	GN	YE	GY	PK	BU	RD.	VT		ROBU S		Shiel	
Interface	Type of connection	Features	Cable														
	200000000000000000000000000000000000000	SSI or BISS,	Signat:	GNE	+٧.	+0	-0	+D	-0	GNO.	+Van	A	Am	8	2 in	PE	
6	1,3	2048 SinCos Sensor outputs	Cable colour	WH	.6N	GN	YE	GY	PK	80	RD	BK.	VT	GY-PK.	RD BU	Shiek	
Interface	Type of connection	Features	Cable							17	7 5			_			
7,8	1,3		551 or 8/55.	Signal:	GND	+V	+0	-c	+0	0	A	Aire	- 8	:8	in .	: P	
		2048 Incr. R5422	Cable colour	WH	BN	GN	YE.	GY	PK.	8K	VI	GY-PK	RD	-BU	554	eld	

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Interface	Type of connection	Features	Cable														
1.2	1.3	SSI or BISS.	Signal:	GND	100	V	+C	-6		+D	-0	SET	0	(R	Stat	PE	
1.2	1,3	SET DIR Status	Cable colour	WH	1	N	GN	W		GY	PK	BU		0	VT	Shield	
Interface.	Type of connection	Features	M12 connect	OF.													
1.2	8	SSI or BISS.	Signal:	GND	1	+V +C		<		+D	-0	SET	0	OR S		sield/PE	
1,2		SET DIR	M12 connector	1		2	3	4	$\Box$	5	6	7 8		8	PH		
interface	Type of connection	Features -	Cable														
3.4	1,3	SSI or BISS,	Signal:	GND	W.	+C		+D	-0.	SET	DIR	A	Ain	. 8	Birw	PE	
	1,10	SET, DIR. 2048 SWCos	Cable colour.	WH	8N	GN	YE	GY	PK	8U	RD:	8K	VT	GY-PK	RD-8U	Shield	
interface	Type of connection	Features	Cable														
		SSI or BISS.	Signal:	GND	+1	+C	-0	+D	-0	SET	DIR	GN	200	+3	Van Pi		
5	1,3	SET DIR. Sensor outputs	Caible colour:	WH	BN	GN	YE	GY	PK	80	RD	,	VT I		RO-BU Shield		
Interface	Type of connection	Features	Cable														
	200000000000000000000000000000000000000	551 or 8/55,	Signal:	GND	+٧	+6	6	+0	-8	GNO	+Vam	A	Aim	8	2 in	PE	
6	1,3	2048 SinCos Sensor outputs	Calble colour.	WH.	6N	GN	YE	GY	PK	80	RD	8K.	VT	GY-PK.	RD-8U	Shield	
Interface .	Type of connection	Features	Cable							A 1							
7.8	1,3	55tor	551 or 8/55,	Signal:	GND	+V	+0	-0	+0	-0	A	Aine		. 8	bree .	: 2	1
0.0		1, 5 2048 incr. RS422	Cable colour	WH	BN	CN	YE.	GY	PK	8K	VI	GY-PK	RD	-BU	Shield		

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