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

SERIE F3683





- Housing diameter Ø36 mm
- SSI / BiSS interface
- Safety-Lock<sup>™</sup>
- 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.

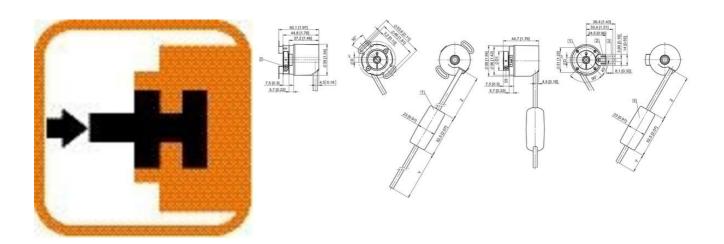
Please refer to the images below for ordering information.

Order code 8.F3663 Shaft version			
• Flange 1 = clamping flange, IP67, $o 36 \text{ mm} [1.42"]$ 3 = clamping flange, IP65, $o 36 \text{ mm} [1.42"]$ 2 = synchro flange, IP65, $o 36 \text{ mm} [1.42"]$ 4 = synchro flange, IP65, $o 36 \text{ mm} [1.42"]$ • Shaft ( $o \times L$ ), with flat 1 = $o 6 \times 12.5 \text{ mm} [0.24 \times 0.49"]$ 3 = $o 8 \times 15 \text{ mm} [0.32 \times 0.59"]$ 5 = $o 10 \times 20 \text{ mm} [0.39 \times 0.79"]$ 2 = $o 1/4" \times 12.5 \text{ mm} [0.49"]$ 4 = $o 3/8" \times 5/8"$	<ul> <li>Interface / power supply</li> <li>SSI, BISS / 5 V DC</li> <li>SSI, BISS / 5 V DC</li> <li>SSI, BISS / 2048 ppr. SinCos / 5 V DC</li> <li>SSI, BISS + 2048 ppr. SinCos / 10 30 V DC</li> <li>SSI, BISS + 2048 ppr. SinCos / 5 V DC, with sensor output</li> <li>SSI, BISS + 2048 ppr. SinCos / 5 V DC, with sensor output</li> <li>SSI, BISS + 2048 ppr. RS422 / 5 V DC</li> <li>SSI, BISS + 2048 ppr. RS422 / 10 30 V DC</li> <li>Type of connection</li> <li>tangential cable, 1 m [3.28] PUR</li> <li>a tangential cable, 1 m [3.28] PUR</li> <li>tangential cable, 1 m [3.28] PUR</li> <li>tangential cable, 1 m [3.28] PUR</li> <li>tangential cable, 1 m [3.28] PUR</li> </ul>	<ul> <li>Code <ul> <li>B = SSI, binary</li> <li>C = BiSS, binary</li> <li>G = SSI, gray</li> </ul> </li> <li><i>Resolution</i> <ul> <li>(singleturn)</li> <li>B = 9 bit ST</li> <li>A = 10 bit ST</li> <li>2 = 12 bit ST</li> <li>3 = 13 bit ST</li> <li>4 = 14 bit ST</li> <li>7 = 17 bit ST</li> </ul> </li> <li><i>Resolution</i> <ul> <li>(multiturn)</li> </ul> </li> <li>2 = 12 bit MT</li> <li>6 = 16 bit MT</li> <li>4 = 24 bit MT</li> </ul>	Optional on request - surface protection salt spray tested - other singleturn resolutions

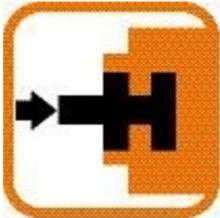
Flange	Interface / power supply	Code	Optional on request
1 = with spring element, short, IP65	1 = SSI, BiSS / 5 V DC	B = SSI, binary	<ul> <li>surface protection</li> </ul>
3 = with spring element, long, IP65	2 = SSI, BiSS / 10 30 V DC	C = BiSS, binary	salt spray tested
2 = with stator coupling, IP65, ø 46 mm [1.81"]	3 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC 4 = SSI, BiSS + 2048 ppr. SinCos / 10 30 V DC	G = SSI, gray	<ul> <li>other singleturn resolutions</li> </ul>
	5 = SSI, BiSS / 5 V DC, with sensor output	Resolution	
Through hollow shaft	6 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC, with sensor output	(singleturn)	
1 = ø 6 mm [0.24"]	7 = SSI, BiSS + 2048 ppr. RS422 / 5 V DC	B = 9 bit ST	
3 = ø 8 mm [0.32"]	8 = SSI, BiSS + 2048 ppr. RS422 / 10 30 V DC	A = 10 bit ST	
2 = 0 1/4''		2 = 12 bit ST	
Blind hollow shaft	Type of connection	3 = 13 bit ST	
(insertion depth max. 14.5 mm [0.57"])	1 = tangential cable, 1 m [3.28'] PUR	4 = 14 bit ST	
4 = σ 10 mm [0.39"]	3 = tangential cable, 5 m [16.40'] PUR U = tangential cable, 10 m [32.81'] PUR	7 = 17 bit ST	
	5 = tangential cable, 1 m [3.28'] PUR with M12 connector for central fastening, 8-pin <sup>1)</sup>	Resolution     (multiturn)	
		2 = 12 bit MT	
		6 = 16 bit MT	
		4 = 24 bit MT	

## **TECHNICAL DATA**

Connection	Cable
Housing diameter	36 mm
IP class	IP65
Mounting	Hollow shaft
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



Interface	Type of connection	Features	Cable													
1.2	1.3	SSI or BISS.	Signal	GND		W.	+C	-C	1	0	Ð	SET	0	(R	Stat	PE
1.4	1.2	SET, DIR, Status	Cable colour	WH		N .	GN	π	1	γų.	PK	BU	1.1	D	VT	Shield
Interface.	Type of connection	Features	M12 connects	0f												
1.2		SSI or BISS.	Signal	GND		14	+C	-C	1	D	-0	SET	0	R	Shie	d/PE
1,2		SET, DIR	M12 connector	1		2	3	4		5	6	7		8	PH	
interface	Type of connection	Features	Cable													
3.4	1.3	SSI or BISS,	Signat	GND	+V	+C		*D	0	SET	DIR	A	Am	8	Bin	PE
	1.0	SET, DIR. 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	vV.	+C	-C	+D	0	SET	DIR	GN	0	-1	-	PE
5	1.3	SET, DIR, Sensor outputs	Cable colour:	WH	BN	GN	۴E	GY	PK	8U	80		π	RO	RD-BU S	
Interface	here of connection		Cable	_								-			_	-
Interface	Type of connection				-	-	-						Piece in	1122		
		551 or BISS,	Signal:	GND	+V	÷C	c	+D	-0	GND_	+V <sub>ore</sub>	A	Am	8	2 inv	PE
6	1.3	2048 SinCes Sensor outputs	Cable colour:	WH	6N	GN	YE	GY	PK	80	RD	88.	vr	GY-PK	10.80	Shield
Interface	Type of connection	Features	Cable	0.00	-	:	-	-		10.0				-		-
7.8	1.3	551 or 8/55.	Signal:	GND	+V.	+0	-c	+D	0	A	Am	.8	8	in i	- PE -	
2.8	1,3	2048 Incr. 85422	Cable colour:	WH	BN.	GN	YE.	GY	PK.	2K	¥7	GY-PK	RC RC	au .	Shield	
ND: Enc CC. Clo D,-D: Dat T. Set R. Dat Bat Stat E: Pro	ck signal a signal input. The current sction input: If the	y ground GND (DV) I position becomes defi I input is active, output I when the shaft is turni	valuesecounte		1	Top vie	ew of		8	2			nnecto	t 8-pin		



interface .	Type of connection	Features	Cable													
1.2	1.3	SSI or BISS,	Signal	ut GND +V		+V +C		~		D	0	SET	10	XR	Stat	PE
1.X	1, 2	SET DIR, Status	Cable colour	WH BN		GN	YE I		av	PK:	BU	RD		VT	Shiek	
Interface.	Type of connection	Features	M12 connect	OF												
1.2	8	SSI or B/SS.	Signal:	GND		W	+C	. <		D	-0	SET	6	NR	Shie	d/PE
1,2		SET, DIR	M12 connector	1		2		4		5	6.	7		8 P		11
interface	Type of connection	Features	Cable													
3.4	1.3	SSI or BISS.	Signal	GND		+C		+D	0	SET	DIR.	A	Am	.8	Bine	PE
2.4	1,3	SET, DIR. 2048 SINCos	Cable colour.	WH	8N	GN	YE	GY	PK.	80	RD	8K.	¥T.	T GFPK RDI		Shiek
interface	Type of connection	Features	Cable				_					_		_		
		SSI or BISS.	Signal:	GND	+1	+C	-0	+D	-0	SET	DR	GN	)	- 13	-	PE
5	1.3	SET DIR	Cable colour	WH	8N	GN	YE	GY	PK	80	80		т	RO	eu.	Shield
		Sensor outputs												3.65		
Interface	Type of connection	Features	Cable													
		SSI or BISS,	Signat:	GND	+1/	+C	-6	+D	-0	CND_	+V.m	A	Am	8	3 inv	PE
6	1.3	2048 SinCos	Cable colour.	WH	.6N	GN	YE	GY	PK.	80	RD	8K.	VT	GY-PK	RD BU	Shiek
		Sensor outputs														
Interface.	Type of connection	Features	Cable													
7.8	1.3	551 or 8/55,	Signal:	GND	+1	+C	-0	+0	-0	A	Am			in .	· P	£ -
1.0	1, 3	2048 incr. R5422	Cable colour: WH BN GN YE GY PK BK VT GY-PK						RC	RD-BU Shie		eld				
AD: Enc CC. Clo D,-D: Dat ET: Set XR: Dat bac Rat: Stat	ck signal a signal input. The current sction input: If the	ly +V DC ly ground GND (9V) I position becomes def s input is active, output I when the shaft is turn	values ecounts			4	3		8	e, mail				c 8-pin		