

OEM Automatic Ltd

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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.

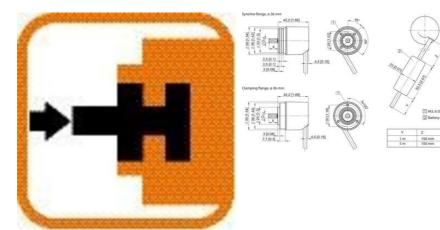
Please refer to the images below for ordering information.

Order code 8.F3653 Shaft version Type		
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"] Shaft (Ø x L), with flat 1 = Ø 6 x 12.5 mm [0.32 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 7 ype 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 *) *) 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 XXXX . XX 12 8.F3673 . **Hollow** shaft Flange 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 bit7 = SSI, BiSS + 2048 ppr. RS422 / 5 V DC 3 = ø 8 mm [0.32"] 2 = 12 bit 2 = 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 bit4 = ø 10 mm [0.39"] 1 = tangential cable, 1 m [3.28] PUR 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

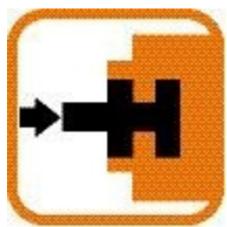
Connection	Cable
Housing diameter	36 mm
IP class	IP65, IP67
Mounting	Shoulder
Output	SSI
Sensor type	Absolute
Shaft diameter max	10 mm
Shaft diameter min	6 mm
Supply voltage dc max	30 V DC
Supply voltage dc min	5 V DC
Temperature operational max	90 °C
Temperature operational min	-40 °C
Version	Singleturn



	Interface	Type of connection	Features														
1	1.2	1.3	SSI or BISS,	Signal:	GND		V	10	-0	1	0	-0	SET	0	lisk .	Stat .	PE
	1,2	1,3	SET DIR Status	Cable colour:	WH	. 8	N	GN	YE		SK.	PK	BU		ID	VT	Shield
	Interface	Type of connection	Type of connection Features M12 connector														
7	1,2	5	55t or 8/55,	Signal:	GND		V	10	-0		-D	0	SET		WR	Shield/PE	
/	5.4	2	SET, DIR	M12 connector	1		2	. 3	4		5	6	7		8	P	н
	Interface	Type of connection	connection Features Cable														
	3.4	1.3	SSI or BISS.	Signali	GND	+14	+C	-0	+D	-0	SET	DR	A	Aim	8	Bin	PE
	3,4	1,1,3.	SET, DIR. 2048 SINCOS	Cable colour	WH	BN	GN	YE	GY	PK	80	RD	8K	VT	GYPK	RD-BU	Shield
	Interface	Type of connection	Features .	Cable													
			SSI or BISS,	Signal:	GND +		1 16 6		+D	-0	SET	DIR	GND _{ana}		+Ken		PE
	5	1,3	SET DIR. Sensor outputs	Cable colour.	WH	8N	GN	YE	.GV.	PK	80	RD	٧	T.	RO-BU		Shield
	Interface	Type of connection	Features	Cable													
			SSI or BISS,	Signal:	GND	W	+6	-0	+0	-0	GND,	+Vign	A	Am		Bow	PE
(24) deep (in the cable)	6	1,3	2048 SinCos Sensor outputs	Cable colour	WH	BN	GN	YE	GY	PK	BU	RD	BK.	VT	GYAK	10 BU	Shield
	Interface	Type of connection	Features	Cable													
7	7,8	1.3	551 or 8/55,	Signal:	GND	W	+6	-0	+D	-0	A	Ain		- 1	lee		
-	2.0	10.0	2048 Incr. RS422	Cable colour:	WH	6N	GN	YE:	GY	PK	8K	VT	GY-PK	80	US	556	eld







Interface	Type of connection	Features	Cable															
1.2	1.3	SSI or BISS.	Signal:	GND		V	10	-0	1	+0	-0	SET		isk .	Stat .	PE		
14	1,3	SET, DIR, Status	Cable colour:	WH	1	IN .	GN	YE	1	GY	PK	BU	1	ID	VI	Shiek		
interface	Type of connection	Features	M12 connector															
1,2	5	55t or 8/55;	Signal:	GND +V		·V	1	<		+D D		SET		DIR Sh		hield/PE		
344	8:	SET, DIR	M12 connector	-1		2	. 3	4		5	6	7	7 8		PH			
Interface	Type of connection	Features	Cable															
3.4 1.3	1,3	SSI or BISS.	Signal	GND	+4	+C	-0	+D	-0	SET	DIR	A	Aim	8	Bin	PE		
3,4	1,3	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	-0	+D	-0	SET	DR	GN	Name .	+5	+V _{mm} PE			
5	1,3	SET DIR. Sensor outputs	Cable colour.	WH	8N	GN	YE	GY.	PK	90	RD	,	VT RC		RD-BU Shi			
Interface	Type of connection	Features:	Cable															
		SSI or BISS,	Signal:	GNO	·w	+C	-0	+0	-0	GNO,	+Van	A	Am		Bire	PE		
6	1,3	2048 SinCos	Cable colour:	WH	BN	GN	YE	GY	PK	8U	RD	BK.	VT	CHAK	80 BU	Shield		
	111/550	Sensor outputs		200				1										
Interface	Type of connection	Features	Cable															
7.8	1.3	SSI or BISS,	Signal:	GND	+V	+C	-C	+D	-0	A	Aim		- 8	ite		4		
7.8 1.3		2048 incr. 85422	Cable colour	1894	6N	GN	YE	GY	PK	BK	WT.	VT GYPK R		DBU Shield				

