

**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.

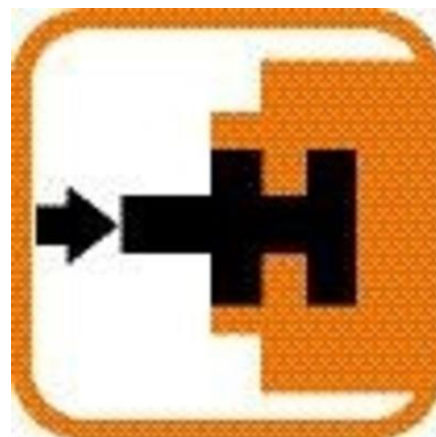
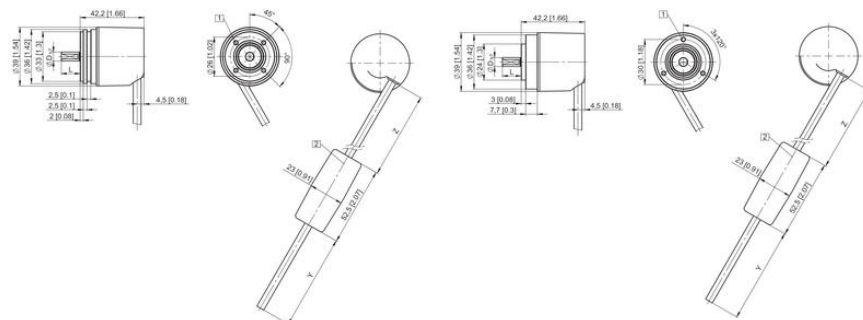
Order code Shaft version	<div> <div>8.F3663</div> <div>Type</div> <div> <div>X</div><div>X</div><div>X</div><div>X</div> <div>X</div><div>X</div><div>X</div><div>2</div> </div> </div>
A Flange 1 = clamping flange, IP67, ø 36 mm [1.42"] 3 = clamping flange, IP65, ø 36 mm [1.42"] 2 = synchro flange, IP67, ø 36 mm [1.42"] 4 = synchro flange, IP65, ø 36 mm [1.42"]	C 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 D 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⁾
B 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"	

Order code Hollow shaft		8.F3683		Type		.XXXXX.XXXX2			
				a b c d		e f g			
a Flange		c Interface / power supply		e Code		Optional on request			
1 = with spring element, short, IP65		1 = SSI, BiSS / 5 V DC		B = SSI, binary		- surface protection			
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		G = SSI, gray		- other singleturn resolutions			
		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							
b Through hollow shaft		d Type of connection		f Resolution (singleturn)					
1 = ø 6 mm [0.24"]		1 = tangential cable, 1 m [3.28'] PUR		B = 9 bit ST					
3 = ø 8 mm [0.32"]		3 = tangential cable, 5 m [16.40'] PUR		A = 10 bit ST					
2 = ø 1/4"		U = tangential cable, 10 m [32.81'] PUR		2 = 12 bit ST					
Blind hollow shaft (insertion depth max. 14.5 mm [0.57"])		5 = tangential cable, 1 m [3.28'] PUR with M12 connector for central fastening, 8-pin ¹⁾		3 = 13 bit ST					
4 = ø 10 mm [0.39"]				4 = 14 bit ST					
				7 = 17 bit ST					
				g Resolution (multiturn)					
				2 = 12 bit MT					
				6 = 16 bit MT					
				4 = 24 bit MT					

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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	Multiturn



Interface	Type of connection	Features	Cable
1,2	1,3	SSI or RS485, SET, DIR, Status	Signal: GND +V +C -C +D -D SET DIR StAt PE Cable colour: WH BN GN YE GF PK BU RD BT VT Shield
1,2	8	SSI or RS485, SET, DIR	MT12 connector Signal: GND +V +C -C +D -D SET DIR ShieldMPE MT12 connector: 1 2 3 4 5 6 7 8 Pin
3,4	1,3	SSI or RS485, SET, DIR, 2048 SinCos	Cable Signal: GND +V +C -C +D -D SET DIR A A inc B B inc PE Cable colour: WH BN GN YE GF PK BU RD BT VT StAt RD BU Shield
5	1,3	SSI or RS485, SET, DIR, Sensor outputs	Cable Signal: GND +V +C -C +D -D SET DIR GND inc +V ext PE Cable colour: WH BN GN YE GF PK BU RD BT VT RD BU Shield
6	1,3	SSI or RS485, 2048 SinCos	Cable Signal: GND +V +C -C +D -D GND inc +V ext A A inc B B inc PE Cable colour: WH BN GN YE GF PK BU RD BT VT StAt RD BU Shield
7,8	1,3	SSI or RS485, 2048 inc. RS422	Cable Signal: GND +V +C -C +D -D A A inc B B inc PE Cable colour: WH BN GN YE GF PK BK VT StAt RD BU Shield

+V Encoder power supply +V DC
GND Encoder power supply ground GND (DN)
+C Clock signal
-C Data signal
SET Set input. The current position becomes defined as position zero.
DIR Direction input. If this input is active, output values are counted backwards (decreases) when the shaft is turning clockwise.
StAt Status output
PE Protective earth
PK Plug connector housing (Shield)
A, A inc Incremental output channel A
B, B inc Incremental output channel B

Top view of mating side, male contact base:

