

KUEBLER - ABSOLUTE-CODED ANGULAR TRANSMITTER SENDIX F5863 / F5883, OPTICAL, SSI, Ø58 MM

SERIE F5863

- Housing diameter Ø58 mm
- SSI-Interface
- Total resolution 41 bits
- 100% insensitive to magnetic fields



PRODUCT DESCRIPTION

Sendix F5863 / F5883 is a series of robust absolute encoded SSI axis sensors for demanding environments. Thanks to its rugged construction with Safety-Lock™ and the fully cast housing, the sensor can also handle the more demanding applications where the requirements are high. The wide temperature range combined with the high enclosure class allows the sensor to be used outdoors as well as applications where large temperature changes occur. Perfect for applications requiring high resolution.

The LED indication facilitates diagnostics of the sensor in place and saves time when troubleshooting.

Please refer to the images below for ordering information.

Order code	8.F5863 . XXXX . XXXX	
Shaft version	Type	a b c d e f g h
a Flange	c Interface / power supply	e Code
1 = clamping flange, IP65 ø 58 mm [2.28"]	1 = SSI, BiSS / 5 V DC	B = SSI, binary
3 = clamping flange, IP67 ø 58 mm [2.28"]	2 = SSI, BiSS / 10 ... 30 V DC	C = BiSS, binary
2 = synchro flange, IP65 ø 58 mm [2.28"]	3 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC	G = SSI, gray
4 = synchro flange, IP67 ø 58 mm [2.28"]	4 = SSI, BiSS + 2048 ppr. SinCos / 10 ... 30 V DC	f Resolution (singleturn) ⁴⁾
b Shaft (ø x L), with flat	5 = SSI, BiSS / 5 V DC, with sensor output	B = 9 bit ST
1 = 6 x 10 mm [0.24 x 0.39"] ¹⁾	6 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC, with sensor output	A = 10 bit ST
2 = 10 x 20 mm [0.39 x 0.79"] ²⁾	7 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 5 V DC	1 = 11 bit ST
3 = 1/4" x 7/8"	8 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 10 ... 30 V DC	2 = 12 bit ST
4 = 3/8" x 7/8"	d Type of connection	3 = 13 bit ST
	1 = axial cable, 1 m [3.28'] PVC	4 = 14 bit ST
	A = axial cable, special length PVC *)	7 = 17 bit ST
	2 = radial cable, 1 m [3.28'] PVC	
	B = radial cable, special length PVC *)	
	3 = axial M23 connector, 12-pin	
	4 = radial M23 connector, 12-pin	
	5 = axial M12 connector, 8-pin ³⁾	
	6 = radial M12 connector, 8-pin ³⁾	
	h Options (service)	
	1 = no option	
	2 = status LED	
	3 = SET button and status LED	
	*) Available special lengths (connection types A, B):	
	2, 3, 5, 8, 10, 15 m [5.56, 9.84, 16.40, 26.25, 32.80, 49.21']	
	order code expansion .XXXX = length in dm	
	ex.: 8.F5863.122A.G323.0030 (for cable length 3 m)	
	Optional on request	
	- Ex 2/22 ⁵⁾	
	- surface protection salt spray tested	
	- other singleturn resolutions	

Order code
Hollow shaft

8.F5883
Type

. **XXXXX** . **XXXXX**
a b c d e f g h

a Flange

- 1 = with spring element, long, IP65
- 2 = with spring element, long, IP67
- 3 = with stator coupling, IP65, ø 65 mm [2.56"]
- 4 = with stator coupling, IP67, ø 65 mm [2.56"]
- 5 = with stator coupling, IP65, ø 63 mm [2.48"]**
- 6 = with stator coupling, IP67, ø 63 mm [2.48"]

b Through hollow shaft

- 3 = ø 10 mm [0.39"]
- 4 = ø 12 mm [0.47"]**
- 5 = ø 14 mm [0.55"]
- 6 = ø 15 mm [0.59"]
- 8 = ø 3/8"
- 9 = ø 1/2"

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 (TTL-comp.) / 5 V DC
- 8 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 10 ... 30 V DC

d Type of connection

- 2 = radial cable, 1 m [3.28'] PVC
- B = radial cable, special length PVC *
- E = tangential cable, 1 m [3.28'] PVC**
- F = tangential cable, special length PVC *
- 4 = radial M23 connector, 12-pin**
- 6 = radial M12 connector, 8-pin ²⁾

*) Available special lengths (connection types B, F):
2, 3, 5, 8, 10, 15 m [5.56, 9.84, 16.40, 26.25, 32.80, 49.21']
order code expansion .XXXX = length in dm
ex.: 8.F5883.542B.G323.0030 (for cable length 3 m)

e Code

- B = SSI, binary
- C = BiSS, binary
- G = SSI, gray**

f Resolution (singleturn) ¹⁾

- B = 9 bit ST
- A = 10 bit ST
- 1 = 11 bit ST
- 2 = 12 bit ST
- 3 = 13 bit ST**
- 4 = 14 bit ST
- 7 = 17 bit ST

g Resolution (multiturn) ¹⁾

- 2 = 12 bit MT**
- 6 = 16 bit MT
- 4 = 24 bit MT

h Options (service)

- 1 = no option
- 2 = status LED
- 3 = SET button and status LED**

Optional on request

- Ex 2/22 (not for type of connection E, F) ³⁾
- surface protection salt spray tested
- other singleturn resolutions

TECHNICAL DATA

Connection	Cable, M12, M23 contact
Housing diameter	58 mm
IP class	IP65, IP67
Mounting	Shoulder
Output	SSI
Resolution MT	SSI: max. 24 bit, BiSS: max. 24 bit
Resolution ST	SSI: 10-17 bit, BiSS: 10-17 bit
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	85 °C
Temperature operational min	-40 °C
Version	Multiturn



