

**KUEBLER - ABSOLUTE-CODED
 ANGULAR TRANSMITTER SENDIX
 5863/5883, OPTICAL, SSI, Ø58 MM
 SERIE 5863**

- Housing diameter Ø58 mm
- SSI / BiSS
- Safety-Lock™
- High enclosure class



PRODUCT DESCRIPTION

Sendix 5863/5883 is a multivariate sensor with SSI / BiSS interface in robust design. Thanks to the construction of Safety-Lock™ as well as the fully cast housing, the sensor is able to handle even the more demanding applications where there are high demands on the sensor. 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. Sendix 5863/5883 has LED indication which facilitates diagnosis of the sensor and a set button that facilitates calibration.

Please refer to the images below for ordering information.

Order code	8.5863	.XXXXX	.XX2X
Shaft version	Type	a b c d	e f g h
a Flange		d Type of connection	e Code
1 = clamping flange, IP65 ø 58 mm [2.28"]		1 = axial cable, 1 m [3.28"] PVC	B = SSI, binary
3 = clamping flange, IP67 ø 58 mm [2.28"]		A = axial cable, special length PVC *)	C = BiSS, binary
2 = synchro flange, IP65 ø 58 mm [2.28"]		2 = radial cable, 1 m [3.28"] PVC	G = SSI, gray
4 = synchro flange, IP67 ø 58 mm [2.28"]		B = radial cable, special length PVC *)	
5 = square flange, IP65 □ 63.5 mm [2.5"]		3 = axial M23 connector, 12-pin	f Resolution ⁵⁾
7 = square flange, IP67 □ 63.5 mm [2.5"]		4 = radial M23 connector, 12-pin	A = 10 bit ST + 12 bit MT
6 = servo flange, IP65 ø 63.5 mm [2.5"] ¹⁾		5 = axial M12 connector, 8-pin ⁴⁾	1 = 11 bit ST + 12 bit MT
8 = servo flange, IP67 ø 63.5 mm [2.5"] ¹⁾		6 = radial M12 connector, 8-pin ⁴⁾	2 = 12 bit ST + 12 bit MT
		*) Available special lengths (connection types A, B):	3 = 13 bit ST + 12 bit MT
		2, 3, 5, 8, 10, 15 m [5.56, 9.84, 16.40, 26.25, 32.80, 49.21']	4 = 14 bit ST + 12 bit MT
		order code expansion .XXXX = length in dm	7 = 17 bit ST + 12 bit MT
		ex.: 8.5863.112A.G323.0030 (for cable length 3 m)	
b Shaft (ø x L), with flat			g Inputs / outputs ⁵⁾
1 = 6 x 10 mm [0.24 x 0.39"] ²⁾			2 = SET, DIR input
2 = 10 x 20 mm [0.39 x 0.79"] ³⁾			additional
3 = 1/4" x 7/8"			status output
4 = 3/8" x 7/8"			
c Interface / power supply			h Options (service)
1 = SSI, BiSS / 5 V DC			1 = no option
2 = SSI, BiSS / 10 ... 30 V DC			2 = status LED
3 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC			3 = SET button and
4 = SSI, BiSS + 2048 ppr. SinCos / 10 ... 30 V DC			status LED
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			
9 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 5 V DC, with sensor output			
		Optional on request	
		- Ex 2/22 ⁶⁾	
		- other singleturn resolutions	
		- surface protection salt spray tested	
		- seawater resistant (stainless steel V4A)	
		Salt spray tested / stainless steel V4A as standard types (deliverable as from 1 unit)	
		salt spray tested:	
		8.5863.32X6.XX22-C	
		V4A	
		1.4404	
		stainless steel V4A:	
		8.5863.32X6.XX22-V4A	

Order code
Hollow shaft

8.5883
Type

. **XXXXX** . **XX2X**
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"]
 - 8 = ø 3/8"
 - 9 = ø 1/2"
- Blind hollow shaft*
(insertion depth max. 30 mm [1.18"])
- 6 = ø 15 mm [0.59"]

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
- 9 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 5 V DC, with sensor output

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.: 8.5883.542B.G323.0030 (for cable length 3 m)

e Code

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

f Resolution ¹⁾

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

g Inputs / outputs ¹⁾

- 2 = SET, DIR input**
additional
status output

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⁾
- other singleturn resolutions
- surface protection salt spray tested
- seawater resistant (stainless steel V4A)

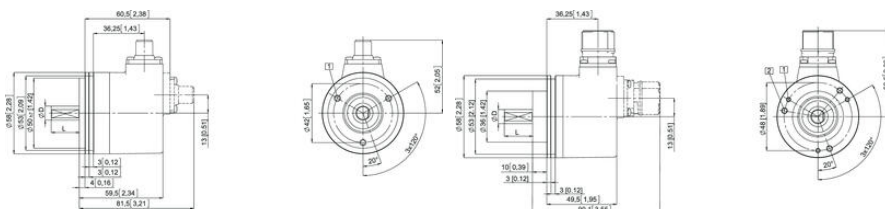
Salt spray tested / stainless steel V4A as standard types (deliverable as from 1 unit)

 salt spray tested:
8.5883.24X6.XX22-C
8.5883.25X6.XX22-C

 stainless steel V4A:
8.5883.24X6.XX22-V4A

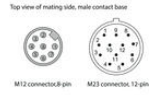
TECHNICAL DATA

Connection	Cable, M12, M23 contact
Housing diameter	58 mm
IP class	IP65, IP67
Mounting	Shoulder
Output	SSI
Resolution MT	Max. 12 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	90 °C
Temperature operational min	-40 °C
Version	Multiturn



Interface	Type of connection	Features	Cable isolate unused wires individually before initial start up!
1,2	1, 2, A, B, E, F	SET, DIR, Status	Signal: 0 V +V C+ C- D+ D- SET DIR Stat N/C N/C H Cable colour: WH BN GN YE GF PK BU RD BK - - - shield
Interface	Type of connection	Features	M23 connector
1,2	3,4	SET, DIR, Status	Signal: 0 V +V C+ C- D+ D- SET DIR Stat N/C N/C H Pin: 1 2 3 4 5 6 7 8 9 10 11 12 PH
Interface	Type of connection	Features	Cable isolate unused wires individually before initial start up!
5	1, 2, A, B, E, F	SET, DIR, Status sensor output	Signal: 0 V +V C+ C- D+ D- SET DIR Stat N/C N/C H Cable colour: WH BN GN YE GF PK BU RD BK - - - (2x) (RD-BU) shield
Interface	Type of connection	Features	M23 connector
5	3,4	SET, DIR, Status sensor output	Signal: 0 V +V C+ C- D+ D- SET DIR Stat N/C N/C H Pin: 1 2 3 4 5 6 7 8 9 10 11 12 PH
Interface	Type of connection	Features	Cable isolate unused wires individually before initial start up!
3,4,7,8	1, 2, A, B, E, F	SET, DIR, SinCos or inc. RS422	Signal: 0 V +V C+ C- D+ D- SET DIR A X B B H Cable colour: WH BN GN YE GF PK BU RD BK VT (2x) (RD-BU) shield
Interface	Type of connection	Features	M23 connector
3,4,7,8	3,4	SET, DIR, SinCos or inc. RS422	Signal: 0 V +V C+ C- D+ D- SET DIR A X B B H Pin: 1 2 3 4 5 6 7 8 9 10 11 12 PH
Interface	Type of connection	Features	Cable isolate unused wires individually before initial start up!
6	1, 2, A, B, E, F	SinCos or inc. RS422 sensor output	Signal: 0 V +V C+ C- D+ D- A X B B H Cable colour: WH BN GN YE GF PK BU RD BK VT (2x) (RD-BU) shield
Interface	Type of connection	Features	M23 connector
6	3,4	SinCos or inc. RS422 sensor output	Signal: 0 V +V C+ C- D+ D- A X B B H Pin: 1 2 3 4 5 6 7 8 9 10 11 12 PH
Interface	Type of connection	Features	M12 connector
1,2	5,6	SET, DIR	Signal: 0 V +V C+ C- D+ D- SET DIR H Pin: 1 2 3 4 5 6 7 8 PH

+V Encoder power supply +V DC
0 V Encoder power supply ground GND 0 V
0 Vaux / +Vaux Using the sensor outputs of the encodes, the voltage present can be measured and if necessary increased accordingly.
C+, C- Click signal
D+, D- Data signal
A, X Incremental output channel A (200pp)
B, B Incremental output channel B (200pp)
SET Set input. The current position becomes defined as position zero.
DIR Direction input. If this input is active, output values are counted backwards (decreasing) when the shaft is turning clockwise.
Stat Status output
PH Plug connector housing shield



Interface	Type of connection	Features	Cable isolate unused wires individually before initial start up!
1,2	1, 2, A, B, E, F	SET, DIR, Status	Signal: 0 V +V C+ C- D+ D- SET DIR Stat N/C N/C H Cable colour: WH BN GN YE GF PK BU RD BK - - - shield
Interface	Type of connection	Features	M23 connector
1,2	3,4	SET, DIR, Status	Signal: 0 V +V C+ C- D+ D- SET DIR Stat N/C N/C H Pin: 1 2 3 4 5 6 7 8 9 10 11 12 PH
Interface	Type of connection	Features	Cable isolate unused wires individually before initial start up!
5	1, 2, A, B, E, F	SET, DIR, Status sensor output	Signal: 0 V +V C+ C- D+ D- SET DIR Stat N/C N/C H Cable colour: WH BN GN YE GF PK BU RD BK - - - (2x) (RD-BU) shield
Interface	Type of connection	Features	M23 connector
5	3,4	SET, DIR, Status sensor output	Signal: 0 V +V C+ C- D+ D- SET DIR Stat N/C N/C H Pin: 1 2 3 4 5 6 7 8 9 10 11 12 PH
Interface	Type of connection	Features	Cable isolate unused wires individually before initial start up!
3,4,7,8	1, 2, A, B, E, F	SET, DIR, SinCos or inc. RS422	Signal: 0 V +V C+ C- D+ D- SET DIR A X B B H Cable colour: WH BN GN YE GF PK BU RD BK VT (2x) (RD-BU) shield
Interface	Type of connection	Features	M23 connector
3,4,7,8	3,4	SET, DIR, SinCos or inc. RS422	Signal: 0 V +V C+ C- D+ D- SET DIR A X B B H Pin: 1 2 3 4 5 6 7 8 9 10 11 12 PH
Interface	Type of connection	Features	Cable isolate unused wires individually before initial start up!
6	1, 2, A, B, E, F	SinCos or inc. RS422 sensor output	Signal: 0 V +V C+ C- D+ D- A X B B H Cable colour: WH BN GN YE GF PK BU RD BK VT (2x) (RD-BU) shield
Interface	Type of connection	Features	M23 connector
6	3,4	SinCos or inc. RS422 sensor output	Signal: 0 V +V C+ C- D+ D- A X B B H Pin: 1 2 3 4 5 6 7 8 9 10 11 12 PH
Interface	Type of connection	Features	M12 connector
1,2	5,6	SET, DIR	Signal: 0 V +V C+ C- D+ D- SET DIR H Pin: 1 2 3 4 5 6 7 8 PH

+V Encoder power supply +V DC
0 V Encoder power supply ground GND 0 V
0 Vaux / +Vaux Using the sensor outputs of the encodes, the voltage present can be measured and if necessary increased accordingly.
C+, C- Click signal
D+, D- Data signal
A, X Incremental output channel A (200pp)
B, B Incremental output channel B (200pp)
SET Set input. The current position becomes defined as position zero.
DIR Direction input. If this input is active, output values are counted backwards (decreasing) when the shaft is turning clockwise.
Stat Status output
PH Plug connector housing shield

