

SENDIX 5853/5873, OPTYCZNY, JEDNOOBROTOWY, SSI, Ø58 MM

Enkodery jednoobrotowe absolutne optyczne

SERIE 5853

- Średnica zewnętrzna: Ø 58 mm
- Maks. średnica wałka: Ø 10 mm. Maks. średnica otworu: Ø 15 mm
- SSI, BiSS, + 2048 ppr SinCos, + 2048 ppr RS422
- Maks. rozdzielczość: 21 bitów ST
- Wytrzymała konstrukcja łożysk Safety-Lock™



OPIS PRODUKTU

Enkodery jednoobrotowe Sendix 5853/5873 Kubler z interfejsem SSI lub BiSS oraz optycznym układem pomiarowym mogą zaoferować rozdzielczość do aż 21bitów.

Dostępna jest również dodatkowa ścieżka inkrementalna oraz specjalna wersja do montażu w napędach wind.

W celu określenia numeru katalogowego proszę o zapoznanie się z poniższymi informacjami.

Order code	8.5853	.XXXX	.XX2X
Shaft version	Type	a b c d	e f g h
a Flange		c Interface / power supply	
1 = clamping flange, IP65 ø 58 mm [2.28"]		1 = SSI, BiSS / 5 V DC	
3 = clamping flange, IP67 ø 58 mm [2.28"]		2 = SSI, BiSS / 10 ... 30 V DC	
2 = synchro flange, IP65 ø 58 mm [2.28"]		3 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC	
4 = synchro flange, IP67 ø 58 mm [2.28"]		4 = SSI, BiSS + 2048 ppr. SinCos / 10 ... 30 V DC	
5 = square flange, IP65 □ 63.5 mm [2.5"]		5 = SSI, BiSS / 5 V DC, with sensor output	
7 = square flange, IP67 □ 63.5 mm [2.5"]		6 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC, with sensor output	
b Shaft (ø x L), with flat		7 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 5 V DC	
1 = 6 x 10 mm [0.24 x 0.39"] ¹⁾		8 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 10 ... 30 V DC	
2 = 10 x 20 mm [0.39 x 0.79"] ²⁾		9 = SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 5 V DC, with sensor output	
3 = 1/4" x 7/8"		d Type of connection	
4 = 3/8" x 7/8"		1 = axial cable, 1 m [3.28'] PVC	
		A = axial cable, special length PVC *)	
		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⁾	
		*) 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.: 8.5853.112A.G323.0030 (for cable length 3 m)	
		e Code	
		B = SSI, binary	
		C = BiSS, binary	
		G = SSI, gray	
		f Resolution ⁴⁾	
		A = 10 bit	
		1 = 11 bit	
		2 = 12 bit	
		3 = 13 bit	
		4 = 14 bit	
		7 = 17 bit	
		C = 21 bit ⁵⁾	
		g Inputs / outputs ⁴⁾	
		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 ⁶⁾	
		- surface protection	
		salt spray tested	
		- other resolutions	

Order code
Hollow shaft

8.5873
Type

. **XXXX** . **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"]
- E = with stator coupling, IP65 mounting without screws ¹⁾
- F = with stator coupling, IP67 mounting without screws ¹⁾
- G = with stator coupling, IP65 ø 72 mm [2.83"] ¹⁾
- H = with expanding coupling, IP65 ø 65 mm [2.56"] ¹⁾

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"

Tapered shaft

- K = ø 10 mm [0.39"]

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.: 8.5873.542B.G323.0030 (for cable length 3 m)

e Code

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

f Resolution ³⁾

- A = 10 bit
- 1 = 11 bit
- 2 = 12 bit
- 3 = 13 bit**
- 4 = 14 bit
- 7 = 17 bit
- C = 21 bit ⁴⁾

g Inputs / outputs ³⁾

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

h Options (service)

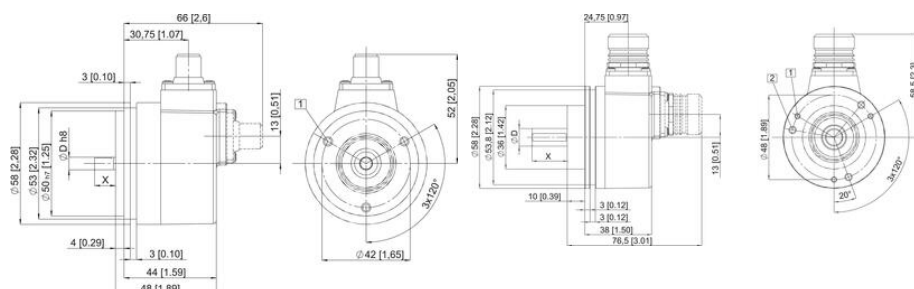
- 1 = no option
- 2 = status LED
- 3 = SET button and status LED**

Optional on request

- Ex 2/22 (not with type of connection E or F) ⁵⁾
- surface protection salt spray tested
- other resolutions

SPECYFIKACJA TECHNICZNA

Max. temperatura pracy	90 °C
Min. temperatura pracy	-40 °C
Montaż	Wał
Napięcie zasilania DC max.	30 V DC
Napięcie zasilania DC min.	5 V DC
Podłączenie	Kabel, Złącze M12, Złącze M23
Średnica obudowy	58 mm
Średnica wału max	10 mm
Średnica wału min	6 mm
Stopień ochrony IP	IP65, IP67
Typ czujnika	Absolutny
Wersja	Jednoobrotowy
Wyjście	SSI



For output circuit 1 or 2 and type of connection 1, 2, 3 or 4 (2 control inputs, 1 status output)

Signal	GND	+V	+C	-C	+D	-D	SET	DIR	Stat	N/C	N/C	N/C	PE
Cable colour	WH	BN	GN	YE	GY	PK	BU	RD	BK	-	-	-	Shield
M12 connector	1	2	3	4	5	6	7	8	9	10	11	12	PH

For output circuit 5 and type of connection 1, 2, 3 or 4 (2 control inputs, 1 status output, sensor outputs for voltage)

Signal	GND	+V	+C	-C	+D	-D	SET	DIR	Stat	N/C	OV rms	UV rms	PE
Cable colour	WH	BN	GN	YE	GY	PK	BU	RD	BK	-	GF/PK	RD/BU	Shield
M12 connector	1	2	3	4	5	6	7	8	9	10	11	12	PH

For output circuit 3, 4, 7 or 8 and type of connection 1, 2, 3 or 4 (2 control inputs, incremental track RS422 or SxCan)

Signal	GND	+V	+C	-C	+D	-D	SET	DIR	A	A Inv	B	B Inv	PE
Cable colour	WH	BN	GN	YE	GY	PK	BU	RD	BK	VT	GF/PK	RD/BU	Shield
M12 connector	1	2	3	4	5	6	7	8	9	10	11	12	PH

For output circuit 6 or 9 and type of connection 1, 2, 3 or 4 (2 control inputs, sensor outputs for voltage)

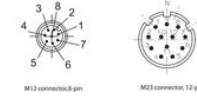
Signal	GND	+V	+C	-C	+D	-D	SET	DIR	A	A Inv	B	B Inv	OV rms	UV rms	PE
Cable colour	WH	BN	GN	YE	GY	PK	BU	RD	BK	VT	GF/PK	RD/BU	Shield		
M12 connector	1	2	3	4	5	6	7	8	9	10	11	12	PH		

For output circuit 1 or 2 and type of connection 5 or 6 (2 control inputs)

Signal	GND	+V	+C	-C	+D	-D	SET	DIR	Shield/PE
M12 connector	1	2	3	4	5	6	7	8	PH

- +V: Encoder Power Supply +V DC
- GND: Encoder Power Supply Ground (0V)
- +C: Clock signal
- C: Data signal
- +D: Set input. The current position is set to zero
- D: Direction input. If this input is active, the output values are counted backwards (decrease) when the shaft is turning clockwise.
- Stat: Status output
- PE: Protective earth
- PH: Plug connector housing (shield)
- A, A Inv: Sine output (incremental)
- B, B Inv: Cosine output (incremental)

Top view of mating side, male contact base



For output circuit 1 or 2 and type of connection 1, 2, 3 or 4 (2 control inputs, 1 status output)

Signal	GND	+V	+C	-C	+D	-D	SET	DIR	Stat	N/C	N/C	N/C	PE
Cable colour	WH	BN	GN	YE	GY	PK	BU	RD	BK	-	-	-	Shield
M12 connector	1	2	3	4	5	6	7	8	9	10	11	12	PH

For output circuit 5 and type of connection 1, 2, 3 or 4 (2 control inputs, 1 status output, sensor outputs for voltage)

Signal	GND	+V	+C	-C	+D	-D	SET	DIR	Stat	N/C	OV rms	UV rms	PE
Cable colour	WH	BN	GN	YE	GY	PK	BU	RD	BK	-	GF/PK	RD/BU	Shield
M12 connector	1	2	3	4	5	6	7	8	9	10	11	12	PH

For output circuit 3, 4, 7 or 8 and type of connection 1, 2, 3 or 4 (2 control inputs, incremental track RS422 or SxCan)

Signal	GND	+V	+C	-C	+D	-D	SET	DIR	A	A Inv	B	B Inv	PE
Cable colour	WH	BN	GN	YE	GY	PK	BU	RD	BK	VT	GF/PK	RD/BU	Shield
M12 connector	1	2	3	4	5	6	7	8	9	10	11	12	PH

For output circuit 6 or 9 and type of connection 1, 2, 3 or 4 (2 control inputs, sensor outputs for voltage)

Signal	GND	+V	+C	-C	+D	-D	SET	DIR	A	A Inv	B	B Inv	OV rms	UV rms	PE
Cable colour	WH	BN	GN	YE	GY	PK	BU	RD	BK	VT	GF/PK	RD/BU	Shield		
M12 connector	1	2	3	4	5	6	7	8	9	10	11	12	PH		

For output circuit 1 or 2 and type of connection 5 or 6 (2 control inputs)

Signal	GND	+V	+C	-C	+D	-D	SET	DIR	Shield/PE
M12 connector	1	2	3	4	5	6	7	8	PH

- +V: Encoder Power Supply +V DC
- GND: Encoder Power Supply Ground (0V)
- +C: Clock signal
- C: Data signal
- +D: Set input. The current position is set to zero
- D: Direction input. If this input is active, the output values are counted backwards (decrease) when the shaft is turning clockwise.
- Stat: Status output
- PE: Protective earth
- PH: Plug connector housing (shield)
- A, A Inv: Sine output (incremental)
- B, B Inv: Cosine output (incremental)

Top view of mating side, male contact base

