

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

Enkodery jednoobrotowe absolutne optyczne

SERIE 5873

- 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.

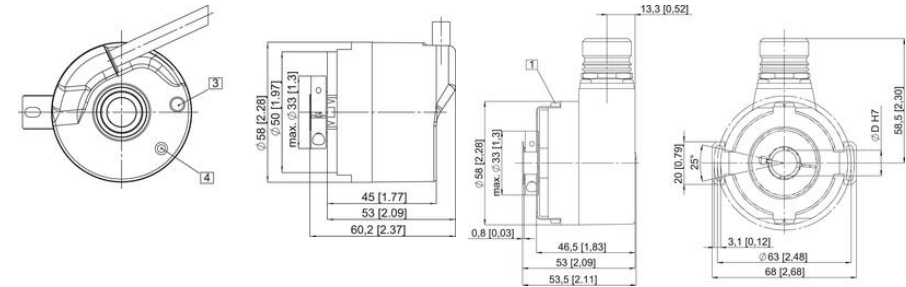
W celu określenia numeru katalogowego proszę o zapoznanie się z poniższymi informacjami.

Order code		8.5853		XXXX		XX2X	
Shaft version		Type		a	b	c	d
				e	f	g	h
a Flange							
1 = clamping flange, IP65		Ø 58 mm [2.28"]					
3 = clamping flange, IP67		Ø 58 mm [2.28"]					
2 = synchro flange, IP65		Ø 58 mm [2.28"]					
4 = synchro flange, IP67		Ø 58 mm [2.28"]					
5 = square flange, IP65		□ 63.5 mm [2.5"]					
7 = square flange, IP67		□ 63.5 mm [2.5"]					
b Shaft (ø x L), with flat							
1 = 6 x 10 mm [0.24 x 0.39"] ¹⁾							
2 = 10 x 20 mm [0.39 x 0.79"] ²⁾							
3 = 1/4" x 7/8"							
4 = 3/8" x 7/8"							
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							
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	.	X	X	X	X	.	X	X	2	X
		Type		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⁾ 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 <i>Optional on request</i> - Ex 2/22 (not with type of connection E or F) ⁵⁾ - surface protection salt spray tested - other resolutions												
*) 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)												

SPECYFIKACJA TECHNICZNA

Max. temperatura pracy	90 °C
Min. temperatura pracy	-40 °C
Montaż	Wał drążony
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	15 mm
Średnica wału min	10 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	Pin

For output circuit 1 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	0V sense	+5V sense	PE
Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	BK	-	GY-PK	RD-BU	Shield
M12 connector:	1	2	3	4	5	6	7	8	9	10	11	12	Pin

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

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	GY-PK	RD-BU	Shield
M12 connector:	1	2	3	4	5	6	7	8	9	10	11	12	Pin

For output circuit 5 or 9 and type of connection 1, 2, 3 or 4 (SinCos or incremental track, sensor outputs for voltage)

Signal	GND	+V	+C	-C	+D	-D	A	A Inv	B	B Inv	0V sense	+5V sense	PE
Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	BK	VT	GY-PK	RD-BU	Shield
M12 connector:	1	2	3	4	5	6	7	8	9	10	11	12	Pin

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	Pin

+V: Encoder Power Supply +V DC
GND: Encoder Power Supply Ground (0V)

+C: Clock signal

+D: Data signal

SET: Set input. The current position is set to zero

DIR: Direction input. If this input is active, the output values are counted backwards (decrease) when the shaft is turning clockwise.

Stat: Status output

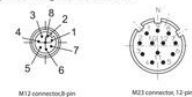
PE: Protective earth

Pin: Plug connector housing (shield)

A, A Inv: Sine output (incremental)

B, B Inv: Cosine output (incremental)

Top view of mating side, male contact base



M12 connector, 8 pin

M12 connector, 12 pin

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	Pin

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	0V sense	+5V sense	PE
Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	BK	-	GY-PK	RD-BU	Shield
M12 connector:	1	2	3	4	5	6	7	8	9	10	11	12	Pin

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

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	GY-PK	RD-BU	Shield
M12 connector:	1	2	3	4	5	6	7	8	9	10	11	12	Pin

For output circuit 5 or 9 and type of connection 1, 2, 3 or 4 (SinCos or incremental track, sensor outputs for voltage)

Signal	GND	+V	+C	-C	+D	-D	A	A Inv	B	B Inv	0V sense	+5V sense	PE
Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	BK	VT	GY-PK	RD-BU	Shield
M12 connector:	1	2	3	4	5	6	7	8	9	10	11	12	Pin

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	Pin

+V: Encoder Power Supply +V DC
GND: Encoder Power Supply Ground (0V)

+C: Clock signal

+D: Data signal

SET: Set input. The current position is set to zero

DIR: Direction input. If this input is active, the output values are counted backwards (decrease) when the shaft is turning clockwise.

Stat: Status output

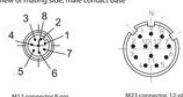
PE: Protective earth

Pin: Plug connector housing (shield)

A, A Inv: Sine output (incremental)

B, B Inv: Cosine output (incremental)

Top view of mating side, male contact base



M12 connector, 8 pin

M12 connector, 12 pin