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Sendix 5853/5873 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. The LED indication facilitates diagnostics of the sensor in place and saves time when troubleshooting.

Order code Shaft version		8.5853																
		Type																
a Flange		c Interface / power supply																
1 = clamping flange, IP65 \varnothing 58 mm [2.28"]		1 = SSI, BiSS / 5 V DC																
3 = clamping flange, IP67 \varnothing 58 mm [2.28"]		2 = SSI, BiSS / 10 ... 30 V DC																
2 = synchro flange, IP65 \varnothing 58 mm [2.28"]		3 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC																
4 = synchro flange, IP67 \varnothing 58 mm [2.28"]		4 = SSI, BiSS + 2048 ppr. SinCos / 10 ... 30 V DC																
5 = square flange, IP65 \square 63.5 mm [2.5"]		5 = SSI, BiSS / 5 V DC, with sensor output																
7 = square flange, IP67 \square 63.5 mm [2.5"]		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																
b Shaft ($\varnothing \times L$), with flat		d Type of connection																
1 = 6 x 10 mm [0.24 x 0.39"] ¹⁾		1 = axial cable, 1 m [3.28"] PVC																
2 = 10 x 20 mm [0.39 x 0.79"] ²⁾		A = axial cable, special length PVC *)																
3 = 1/4" x 7/8"		2 = radial cable, 1 m [3.28"] PVC																
4 = 3/8" x 7/8"		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⁾																

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 M12 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 +VDC

GND: Encoder Power Supply Ground (0V)

+C: -C: Clock signal

+D: -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