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SENDIX F3653/F3673, OPTYCZNY, JEDNOOBROTOWY, SSI, Ø36 MM

Enkodery jednoobrotowe absolutne optyczne

SERIE F3653

- Średnica zewnętrzna: Ø 36 mm
- Maks. średnica wałka: Ø 10 mm. Maks. średnica otworu: Ø 10 mm
- Maks. rozdzielczość: 17 bitów ST
- SSI, BiSS, + 2048 ppr SinCos, + 2048 ppr RS422
- Temp. pracy: -40 do +90 ° C

OPIS PRODUKTU

Enkodery jedoobrotowe serii Sendix F36 Kubler z opatentowaną Technologią Inteligentnego Pomiaru (Intelligent Scan Technology™) oraz interfejsem SSI lub BiSS są wyjątkowo wytrzymałe i kompaktowe.
Przy rozmiarze zaledwie 36 x 42 mm dostępne są wersje z otworem przelotowym do 8 mm, a przy otworze nieprzelotowym do 10 mm.
Wysoka precyzja wykonania umożliwia uzyskanie rozdzielczości do 17 bitów.

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

Order code 8.F3653 . X X X X . X X 12
Shaft version Type — a b c d — e f

a *Flange*
1 = clamping flange, IP67, ø 36 mm [1.42"]
3 = clamping flange, IP65, ø 36 mm [1.42"]
2 = synchro flange, IP67, ø 36 mm [1.42"]
4 = synchro flange, IP65, ø 36 mm [1.42"]

b *Shaft (ø x L), with flat*
1 = ø 6 x 12.5 mm [0.24 x 0.49"]
3 = ø 8 x 15 mm [0.32 x 0.59"]
5 = ø 10 x 20 mm [0.39 x 0.79"]
2 = ø 1/4" x 12.5 mm [0.49"]
4 = ø 3/8" x 5/8"

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 / 5 V DC
8 = SSI, BiSS + 2048 ppr. RS422 / 10 ... 30 V DC

d *Type of connection*
1 = tangential cable, 1 m [3.28] PUR
3 = tangential cable, 5 m [16.40] PUR
F = tangential cable, special length PUR *)
8 = axial M12 connector, 8-pin 1)

*) Available special lengths (connection type F):
2, 3, 8, 10, 15 m [6.56, 9.84, 26.25, 32.80, 49.21']
order code expansion .XXXX = length in dm
ex.: 8.F3653.432F.G312.0030 (for cable length 3 m)

e *Code*
B = SSI, binary
C = BiSS, binary
G = SSI, gray

f *Resolution*
A = 10 bit
2 = 12 bit
3 = 13 bit
4 = 14 bit
7 = 17 bit

Optional on request
- surface protection salt spray tested
- other resolutions

Order code Hollow shaft 8.F3673 . X X X X . X X 12
Type (a b c d) (e f)

a *Flange*
1 = with spring element, short, IP65
3 = with spring element, long, IP65
2 = with stator coupling, IP65, ø 46 mm [1.81"]

b *Through hollow shaft*
1 = ø 6 mm [0.24"]
3 = ø 8 mm [0.32"]
2 = ø 1/4"
Blind hollow shaft
(insertion depth max. 14.5 mm [0.57"])
4 = 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 / 5 V DC
8 = SSI, BiSS + 2048 ppr. RS422 / 10 ... 30 V DC

d *Type of connection*
1 = tangential cable, 1 m [3.28] PUR
3 = tangential cable, 5 m [16.40] PUR
F = tangential cable, special length PUR *)
8 = axial M12 connector, 8-pin 1)

*) Available special lengths (connection type F):
2, 3, 8, 10, 15 m [6.56, 9.84, 26.25, 32.80, 49.21']
order code expansion .XXXX = length in dm
ex.: 8.F3673.242F.G312.0030 (for cable length 3 m)

e *Code*
B = SSI, binary
C = BiSS, binary
G = SSI, gray

f *Resolution*
A = 10 bit
2 = 12 bit
3 = 13 bit
4 = 14 bit
7 = 17 bit

Optional on request
- surface protection salt spray tested
- other resolutions

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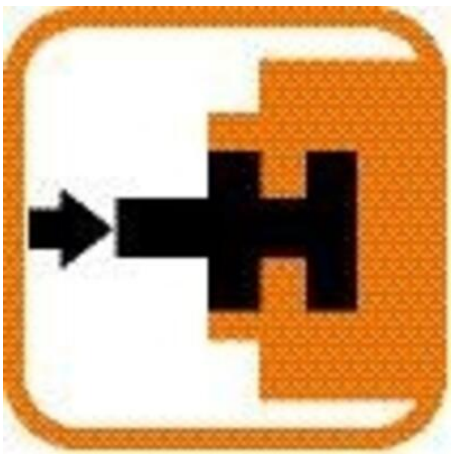
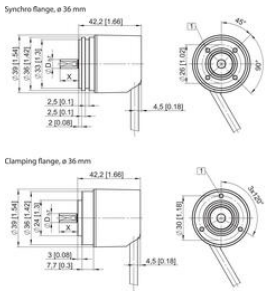
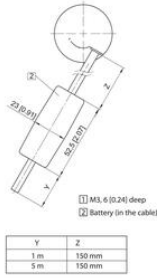
SPECYFIKACJA TECHNICZNA

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
Średnica obudowy	36 mm
Średnica wału max	10 mm
Średnica wału min	6 mm
Stopień ochrony IP	IP65, IP67
Typ czujnika	Absolutny
Wersja	Jednoobrotowy
Wyjście	SSI







Y	Z
1 m	150 mm
5 m	150 mm

Terminal assignment

Interface	Type of connection	Features	Cable											
1, 2	1, 3	SSI or BiSS, SET, DIR, Status	Signal:	GND	+V	+C	-C	+D	-D	SET	DIR	Stat	PE
			Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	VT	Shield

Interface	Type of connection	Features	M12 connector									
1, 2	5	SSI or BiSS, SET, DIR	Signal:	GND	+V	+C	-C	+D	-D	SET	DIR	Shield/PE
			M12 connector	1	2	3	4	5	6	7	8	PH

Interface	Type of connection	Features	Cable													
3, 4	1, 3	SSI or BiSS, SET, DIR, 2048 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

Interface	Type of connection	Features	Cable												
5	1, 3	SSI or BiSS, SET, DIR, Sensor outputs	Signal:	GND	+V	+C	-C	+D	-D	SET	DIR	GND_{sens}		$+V_{sens}$	PE
			Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	VT		RD-BU	Shield

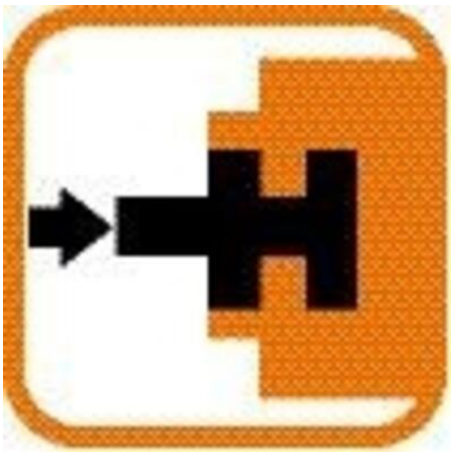
Interface	Type of connection	Features	Cable														
6	1, 3	SSI or BiSS, 2048 SinCos Sensor outputs	Signal:	GND	+V	+C	-C	+D	-D	GND_{sens}	$+V_{sens}$	A	A inv	B	B inv	PE
			Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	BK	VT	GY-PK	RD-BU	Shield

Interface	Type of connection	Features	Cable												
7, 8	1, 3	SSI or BiSS, 2048 incr. RS422	Signal:	GND	+V	+C	-C	+D	-D	A	A inv	B	B inv	PE
			Cable colour:	WH	BN	GN	YE	GY	PK	BK	VT	GY-PK	RD-BU	Shield

+V: Encoder power supply +V DC
GND: Encoder power supply ground GND (0V)
+C, -C: Clock signal
+D, -D: Data signal
SET: Set input. The current position becomes defined as position zero.
DIR: Direction input: If this input is active, 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: Incremental output channel A
B, B inv: Incremental output channel B

Top view of mating side, male contact base

M12 connector, 8-pin



Terminal assignment

Interface	Type of connection	Features	Cable										
1, 2	1, 3	SSI or BiSS,	Signal:	GND	+V	+C	-C	+D	-D	SET	DIR	Stat	PE
		SET, DIR, Status	Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	VT	Shield

Interface	Type of connection	Features	M12 connector								
1, 2	5	SSI or BiSS,	Signal:	GND	+V	+C	-C	+D	-D	SET	DIR	Shield/PE
		SET, DIR	M12 connector	1	2	3	4	5	6	7	8	PH

Interface	Type of connection	Features	Cable												
3, 4	1, 3	SSI or BiSS,	Signal:	GND	+V	+C	-C	+D	-D	SET	DIR	A	A inv.	B	B inv.	PE
		SET, DIR, 2048 SinCos	Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	BK	VT	GY-PK	RD-BU	Shield

Interface	Type of connection	Features	Cable										
5	1, 3	SSI or BiSS,	Signal:	GND	+V	+C	-C	+D	-D	SET	DIR	GND_{SYS}	$+V_{SYS}$	PE
		SET, DIR,	Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	VT	RD-BU	Shield
		Sensor outputs												

Interface	Type of connection	Features	Cable													
6	1, 3	SSI or BiSS,	Signal:	GND	+V	+C	-C	+D	-D	GND_{SYS}	$+V_{SYS}$	A	A inv.	B	B inv.	PE
		2048 SinCos	Cable colour:	WH	BN	GN	YE	GY	PK	BU	RD	BK	VT	GY-PK	RD-BU	Shield
		Sensor outputs														

Interface	Type of connection	Features	Cable											
7, 8	1, 3	SSI or BiSS,	Signal:	GND	+V	+C	-C	+D	-D	A	A inv.	B	B inv.	PE
		2048 incr. RS422	Cable colour:	WH	BN	GN	YE	GY	PK	BK	VT	GY-PK	RD-BU	Shield

+V: Encoder power supply +V DC
GND: Encoder power supply ground GND (0V)
+C, -C: Clock signal
+D, -D: Data signal
SET: Set input. The current position becomes defined as position zero.
DIR: Direction input: If this input is active, 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.: Incremental output channel A
B, B inv.: Incremental output channel B

Top view of mating side, male contact base

M12 connector, 8-pin