

**SENDIX F5863/5883, OPTYCZNY,
WIELOBROTOWY, SSI, Ø58 MM**

Enkodery wieloobrotowe absolutne optyczne

SERIE F5883

- Średnica zewnętrzna: Ø 58 mm
- Maks. średnica wałka: Ø 10 mm. Maks. średnica otworu: Ø 15 mm
- Maks. rozdzielczość: 17 bitów ST + 24 bitów MT
- SSI, BiSS, + 2048 ppr SinCos, + 2048 ppr RS422
- Safety-Lock™



OPIS PRODUKTU

Enkodery absolutne wielobrotowe F5863/5883 o całkowitej rozdzielczości do 41 bitów.

Wielokrotnie nagradzana i chroniona patentem technologia Intelligent Scan™ rodziny enkoderów F-Multiturn firmy Kübler ma teraz zastosowanie w enkoderze o standardowym wymiarze 58 mm.

Cechy:

- całkowitą rozdzielczość 41 bitów (17 bitów jednoobrotowe / 24 bity wieloobrotowe)
- wyjście SSI lub BiSS-C, opcjonalnie dodatkowy wyjście inkrementalne, Sin/Cos
- obudowa z odlewanej ciśnieniowo stopu cynku
- budowa łożysk Safety Lock™ gwarantuje bardzo wysoką odporność wału na obciążenia osiowe i promieniowe
- w 100% odporne na zakłócenia magnetyczne
- częstotliwości taktowania do 2 MHz SSI / 10 MHz BiSS-C

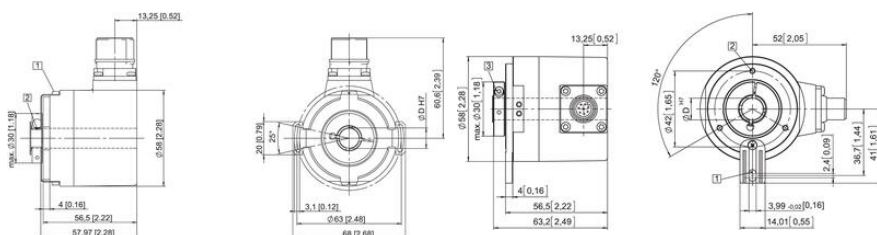
W celu określenia numeru katalogowego proszę o zapoznanie się z poniższymi informacjami.

Order code Shaft version	8.F5863 Type	.XXX.X.XXX	.XXX.X.XXX
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"]		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	e Code B = SSI, binary C = BiSS, binary G = SSI, gray
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"		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⁾	f Resolution (singleturn) ⁴⁾ B = 9 bit ST A = 10 bit ST 1 = 11 bit ST 2 = 12 bit ST 3 = 13 bit ST 4 = 14 bit ST 7 = 17 bit ST
		*) 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.F5863.122A.G323.0030 (for cable length 3 m)	g Resolution (multiturn) ⁴⁾ 2 = 12 bit MT 6 = 16 bit MT 4 = 24 bit MT
			h Options (service) 1 = no option 2 = status LED 3 = SET button and status LED

Order code		8.F5883 . XXXX.XXXX							
Hollow shaft		Type							
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"]							
	6	= ø 15 mm [0.59"]							
	8	= ø 3/8"							
	9	= ø 1/2"							
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							
d Type of connection	7	= SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 5 V DC							
	8	= SSI, BiSS + 2048 ppr. RS422 (TTL-comp.) / 10 ... 30 V DC							
	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 *)							
e Code	4	= radial M23 connector, 12-pin							
	6	= radial M12 connector, 8-pin ²⁾							
	3	= 13 bit ST							
	4	= 14 bit ST							
	7	= 17 bit ST							
		Optional on request							
f Resolution (singleturn) ¹⁾	B	= 9 bit ST							
	A	= 10 bit ST							
	1	= 11 bit ST							
	2	= 12 bit ST							
	3	= 13 bit ST							
	4	= 14 bit ST							
g Resolution (multiturn) ¹⁾	B	= SSI, binary							
	C	= BiSS, binary							
	G	= SSI, gray							
	2	= 12 bit MT							
	6	= 16 bit MT							
	4	= 24 bit MT							
h Options (service)	1	= no option							
	2	= status LED							
	3	= SET button and status LED							
		- Ex 2/22 (not for type of connection E, F) ³⁾							
		- surface protection salt spray tested							
		- other singleturn resolutions							

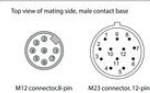
SPECYFIKACJA TECHNICZNA

Max. temperatura pracy	85 °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
Rozdzielczość MT	SSI: max. 24 bit, BiSS: max. 24 bit
Rozdzielczość ST	SSI: 10-17 bit, BiSS: 10-17
Średnica obudowy	58 mm
Średnica wału max	15 mm
Średnica wału min	10 mm
Stopień ochrony IP	IP65, IP67
Typ czujnika	Absolutny
Wersja	Wielobrotowy
Wyjście	SSI



Interface	Type of connector	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 connector	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 connector	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 - - - shield
Interface	Type of connector	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 connector	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 GF PK RD-BU shield
Interface	Type of connector	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 connector	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 GF PK RD-BU shield
Interface	Type of connector	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 connector	Features	M17 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 encoders, the voltage present can be measured and if necessary increased accordingly.
C+ C- Click signal
D+ D- Data signal
A, B Incremental output channel A (A cosine)
B, B Incremental output channel B (sine)
SET Set input. The current position becomes defined as position zero.
DIR Direction input. If this input is active, output values are counted backwards (decreased) when the shaft is turning clockwise.
Stat Status output
PH Plug connector housing (shield)



Interface	Type of connector	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 connector	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 connector	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 - - - shield
Interface	Type of connector	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 connector	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 GF PK RD-BU shield
Interface	Type of connector	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 connector	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 GF PK RD-BU shield
Interface	Type of connector	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 connector	Features	M17 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 encoders, the voltage present can be measured and if necessary increased accordingly.
C+ C- Click signal
D+ D- Data signal
A, B Incremental output channel A (A cosine)
B, B Incremental output channel B (sine)
SET Set input. The current position becomes defined as position zero.
DIR Direction input. If this input is active, output values are counted backwards (decreased) when the shaft is turning clockwise.
Stat Status output
PH Plug connector housing (shield)

