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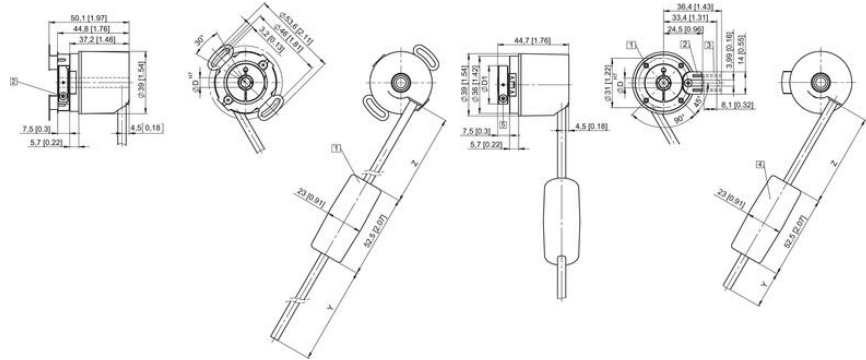
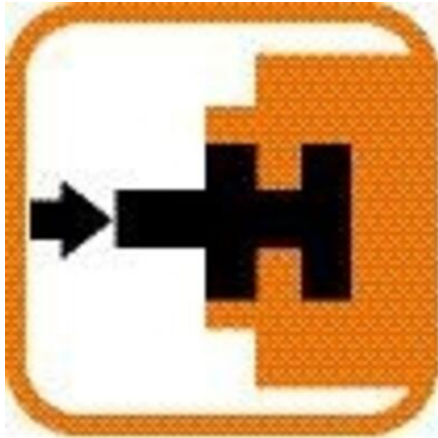
Please refer to the images below for ordering information.

Order code Shaft version	8.F3663 . XXXX . XXX2 Type	
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"]	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 U = tangential cable, 10 m [32.81'] PUR 5 = tangential cable, 1 m [3.28'] PUR with M12 connector for central fastening, 8-pin ¹⁾	e Code B = SSI, binary C = BiSS, binary G = SSI, gray f Resolution (singleturn) B = 9 bit ST A = 10 bit ST 2 = 12 bit ST 3 = 13 bit ST 4 = 14 bit ST 7 = 17 bit ST g Resolution (multiturn) 2 = 12 bit MT 6 = 16 bit MT 4 = 24 bit MT

Order code		8.F3683		.XXXX.XXX2	
Hollow shaft		Type			
a Flange		c Interface / power supply		e Code	
1 = with spring element, short, IP65		1 = SSI, BiSS / 5 V DC		B = SSI, binary	
3 = with spring element, long, IP65		2 = SSI, BiSS / 10 ... 30 V DC		C = BiSS, binary	
2 = with stator coupling, IP65,		3 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC		G = SSI, gray	
ø 46 mm [1.81"]		4 = SSI, BiSS + 2048 ppr. SinCos / 10 ... 30 V DC		f Resolution (singleturn)	
b Through hollow shaft		5 = SSI, BiSS / 5 V DC, with sensor output		B = 9 bit ST	
1 = ø 6 mm [0.24"]		6 = SSI, BiSS + 2048 ppr. SinCos / 5 V DC, with sensor output		A = 10 bit ST	
3 = ø 8 mm [0.32"]		7 = SSI, BiSS + 2048 ppr. RS422 / 5 V DC		2 = 12 bit ST	
2 = ø 1/4"		8 = SSI, BiSS + 2048 ppr. RS422 / 10 ... 30 V DC		3 = 13 bit ST	
Blind hollow shaft		d Type of connection		4 = 14 bit ST	
(insertion depth max. 14.5 mm [0.57"])		1 = tangential cable, 1 m [3.28'] PUR		7 = 17 bit ST	
4 = ø 10 mm [0.39"]		3 = tangential cable, 5 m [16.40'] PUR		g Resolution (multiturn)	
		U = tangential cable, 10 m [32.81'] PUR		2 = 12 bit MT	
		5 = tangential cable, 1 m [3.28'] PUR		6 = 16 bit MT	
		with M12 connector for central fastening, 8-pin ¹⁾		4 = 24 bit MT	

Specifications

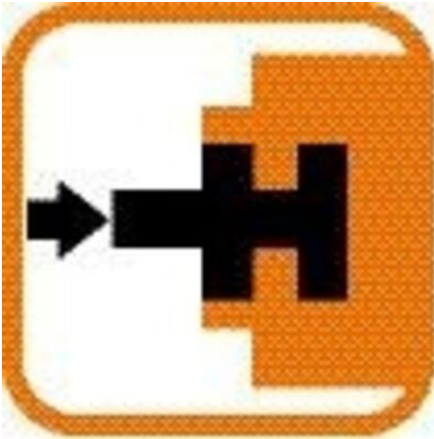
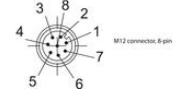
Connection Thread	Cable
Housing diameter	36
IP Class	IP65
Mounting	Hollow shaft
Output	SSI
Sensor type	Absolute
Shaft Diameter max	10
Shaft Diameter min	6
Supply Voltage DC Max	30
Supply Voltage DC Min	5
Temperature range from	-40
Temperature range to	90
Version	Multiturn



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 GF PK BK BU VT Shield
Interface	Type of connection	Features	M12 connector
1,2	8	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 Pin
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 inc B B inc PE Cable colour: WH BN GN YE GF PK BK BU VT GT-PN 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 inc +V inc PE Cable colour: WH BN GN YE GF PK BK BU VT RD-BU Shield
Interface	Type of connection	Features	Cable
6	1,3	SSI or BISS, 2048 SinCos	Signal: GND +V +C -C +D -D GND inc +V inc A A inc B B inc PE Cable colour: WH BN GN YE GF PK BK BU VT GT-PN RD-BU Shield
Interface	Type of connection	Features	Cable
7,8	1,3	SSI or BISS, 2048 inc RS422	Signal: GND +V +C -C +D -D A A inc B B inc PE Cable colour: WH BN GN YE GF PK BK VT GT-PN 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 (decreased) when the shaft is turning clockwise.
Stat Status output
PE Protective earth
PN Plug connector housing (Shield)
A, A inc Incremental output channel A
B, B inc Incremental output channel B

Top view of mating side, male contact base:



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 GF PK BK BU VT Shield
Interface	Type of connection	Features	M12 connector
1,2	8	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 Pin
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 inc B B inc PE Cable colour: WH BN GN YE GF PK BK BU VT GT-PN 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 inc +V inc PE Cable colour: WH BN GN YE GF PK BK BU VT RD-BU Shield
Interface	Type of connection	Features	Cable
6	1,3	SSI or BISS, 2048 SinCos	Signal: GND +V +C -C +D -D GND inc +V inc A A inc B B inc PE Cable colour: WH BN GN YE GF PK BK BU VT GT-PN RD-BU Shield
Interface	Type of connection	Features	Cable
7,8	1,3	SSI or BISS, 2048 inc RS422	Signal: GND +V +C -C +D -D A A inc B B inc PE Cable colour: WH BN GN YE GF PK BK VT GT-PN 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.
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Top view of mating side, male contact base:

