



**Order code**  
**Hollow shaft**

**8.M3683** . **XX2X** . **XXXX2**  
Type      a b c d e f g

**a Flange**  
**2 = with stator coupling, IP65, ø 46 mm [1.81"]**  
3 = with spring element, long, IP65  
5 = with stator coupling, IP67, ø 46 mm [1.81"]  
6 = with spring element, long, IP67

**b Blind hollow shaft**  
(insertion depth max. 18.5 mm [0.73"])  
1 = ø 6 mm [0.24"]  
3 = ø 8 mm [0.32"]  
**4 = ø 10 mm [0.39"]**  
2 = ø 1/4"

**c Interface / power supply**  
**2 = SSI / 10 ... 30 V DC**

**d Type of connection**  
1 = axial cable, 1 m [3.28'] PUR  
A = axial cable, special length PUR \*)  
2 = radial cable, 1 m [3.28'] PUR  
B = radial cable, special length PUR \*)  
3 = axial M12 connector, 8-pin  
**4 = radial M12 connector, 8-pin**  
\*) 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.M3683.242A.G322.0030 (for cable length 3 m)

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

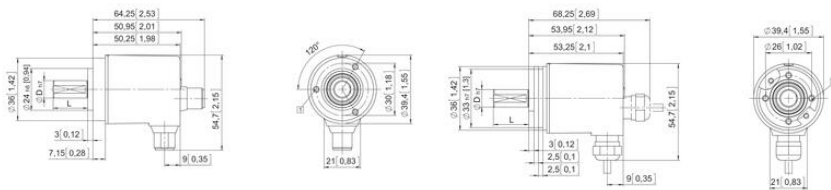
**f Resolution (singleturn)**  
A = 10 bit ST  
2 = 12 bit ST  
**3 = 13 bit ST**  
4 = 14 bit ST

**g Resolution (multiturn)**  
**2 = 12 bit MT**  
6 = 16 bit MT  
A = 20 bit MT  
4 = 24 bit MT

**Optional on request**  
- Ex 2/22 (only for connection types 3 and 4)  
- surface protection salt spray tested

**Specifications**

<b>Housing diameter</b>	36
<b>IP Class</b>	IP65, IP67
<b>Resolution Envarv</b>	10-14 bit
<b>Resolution More Yards</b>	Max. 24 bit
<b>Shaft Diameter max</b>	10
<b>Shaft Diameter min</b>	6
<b>Supply Voltage DC Max</b>	30
<b>Supply Voltage DC Min</b>	10
<b>Temperature range from</b>	-40
<b>Temperature range to</b>	85



Interface	Type of connection	Features	Cable (outside unused wires individually before initial start-up)
2	1, 2, A, B	SET, DIR	Signal: ØV, +V, C+, C-, D+, D-, SET, DIR, H Cable colour: WH, BN, GN, YE, GY, PK, BU, RD, shield
2	3, 4	SET, DIR	M12 connector, 8-pin Signal: ØV, +V, C+, C-, D+, D-, SET, DIR, H Pin: 1, 2, 3, 4, 5, 6, 7, 8, PH

+V Encoder power supply +V DC  
 ØV Encoder power supply ground GND (ØV)  
 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.  
 PHH Plug connector housing shield



M12 connector, 8-pin