

Order code
Hollow shaft

8.M3683.XX2X.XXX2
Type

- 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

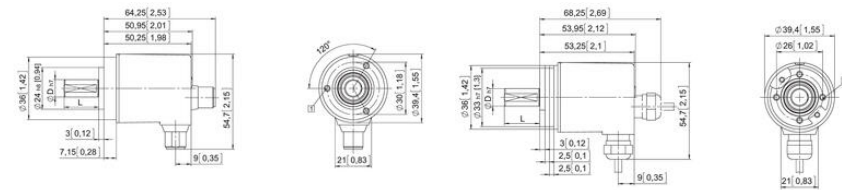
- f Resolution (singleturn)**
 A = 10 bit ST
 2 = 12 bit ST
3 = 13 bit ST
 4 = 14 bit ST

- 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

Connection Thread	Cable, M12
Housing diameter	36
IP Class	IP65, IP67
Mounting	Shoulder
Output	SSI
Resolution Envarv	10-14 bit
Resolution More Yards	Max. 24 bit
Sensor type	Absolute
Shaft Diameter max	10
Shaft Diameter min	6
Supply Voltage DC Max	30
Supply Voltage DC Min	10
Temperature range from	-40
Temperature range to	85
Version	Multiturn



Interface	Type of connection	Features	Cable (isolate unused wires individually before initial start-up)
2	1, 2, A, B	SET, DRB	Signal: 0V -V+ C+ C- D+ D- SET DRB H Cable colour: WH BN GN YE OY PK BU RD shield
2	3, 4	SET, DRB	M12 connector, 8-pin Signal: 0V -V+ C+ C- D+ D- SET DRB H Pin: 1 2 3 4 5 6 7 8 PH

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V+ Encoder power supply +V DC
 0V 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.
 DRB Direction input. If this input is active, output values are counted backwards (decrease) when the shaft is turning clockwise.
 PHH Plug connector housing (shield)

Top view of mating side, male contact base

M12 connector, 8-pin

