

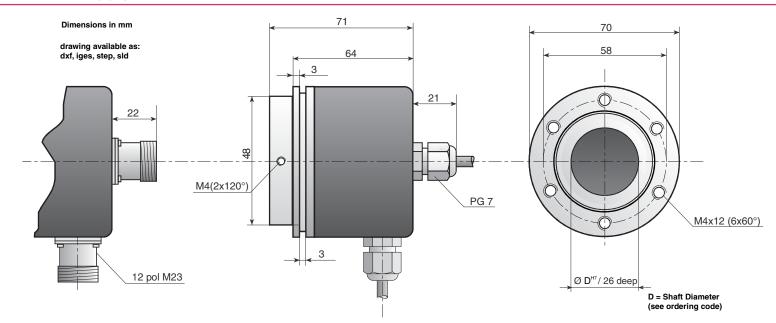
CHARACTERISTICS

- Housing Size 70 mm
- □ Gearless and Battery Free Design
- □ Blind Hole Shaft Diameter from 20 to 36 mm
- □ Resolutions Single-Turn from 1 to 16 Bit
- □ Resolutions Multi-Turn from 1 to 20 Bit
- □ Supply Voltage 5 VDC or 10 to 30 VDC

MECHANICAL SPECIFICATIONS	
Cover & Body	Aluminum
Shaft	Stainless Steel
max. Speed	6000 RPM
Mass moment of inertia	≤ 2.5 · 10 ⁻⁶ kgm²
Starting Torque (at 25°C)	> 0.05 Nm
max. Loading on Shaft	Axial 40 N, Radial 30 N
Shock resistance (6 ms)	≤ 2000 m/s²
Vibration resistance (55 - 2000 Hz)	≤ 300 m/s² (Cable)
	≤ 150 m/s² (Plug)
Protection Rate (DIN EN 60529)	IP 65
Operating Temperature	-20° C to +70° C
	+100° C (optional)
Weight	ca. 0.25 kg



DIMENSIONS

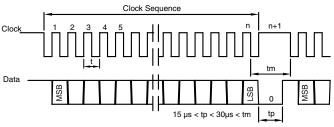


ELECTRICAL SPECIFICATIONS SSI OUTPUT

Supply Voltage	5 VDC , 8 - 30 VDC
Current Consumption (no load)	max. 85 mA@27 VDC
Output Circuit	RS485/RS422 compatible
Pulse frequency	max. 500 kHz
Direction Setting DIR <->	$DIR = GND \rightarrow cw, DIR = Vcc \rightarrow ccw$
Preset/Reset Setting	Set: Preset = Vcc for 2s
	Reset: Preset = GND
Short Circuit Protection	100%
Reverse polarity protection per channel	100%



SIGNALS SSI OUTPUT



SSI Single Transmission Protocol

CONNECTIONS SSI OUTPUT

Function	Cable Code	12 Pol M23 Plug	
GND	white	01	
Vcc	brown	02	
SSI Clock +	green	03	
SSI Clock -	yellow	04	
SSI Data +	grey	05	
SSI Data -	pink	06	
Reset/Preset *1	blue	07	
Direction Setting/DIR	red	08	

Notes:

ELECTRICAL SPECIFICATIONS CANOPEN OUTPUT

Supply Voltage	4.75 - 32 VDC
Power Consumption	max. 0.5 W
Protocol	CANopen
Baudrate	10kBaud up to 1MBaud
Node Number	1 up to 127 (defalut 127)
Short Circuit Protection	100%
Reverse polarity protection per channel	100%
ESD (DIN EN 61000-4-2)	8kV
Burst (DIN EN 61000-4-4)	2 kV

CONNECTIONS CANOPEN OUTPUT.

Function	Cable	
	Code	
GND	white	
Vcc	brown	
CANHigh	green	
CANLow	yellow	
CANGND shield	shield	

¹ Vcc for 2 seconds to reset. Connect to GND for normal operation.

Absolute Multi-Turn Hollow Shaft Encoder

ORDERING CODE

MH 700 - Sxxx"

Resolution Single-Turn 1 to 16 Bit available Resolution Single-Turn 1 to 43 Bit available

- a Group Function
 MH = Absolute Multiturn Hollow Shaft
- b Basic Series Number 700
- c Shaft Diameter D selectable from 20 to 36 mm 20 = 20 mm, 31 = 31 mm, 36 = 36 mm
- d Mechanical Option
 Y = Blind Hole Hollow Shaft

e Connection Type

0 = 2 m Cable, 7 = 12 Pin M23 Plug

- f Connection Location A = Axial, R = Radial
- g Output Signals

J = Binary Code SSI

Y = Gray Code SSI

R = CANopen

h Output Circuit Type / Supply Voltage

F = SSI 5 VDC

G = SSI 8 bis 30 VDC

Y = CANopen 4.75 to 32 VDC

Notes:

FURTHER INFORMATION

Accessories:

Corresponding accessories, such as couplings, measuring wheels, display modules, extension cables etc., for this encoder can be found on our homepage www.globalencoder.com under "Accessories".



¹ Any special functions and design will be designated by a 4 digit code (Sxxx) at the end of the part number.

Consult our Office for your region for further details. If this encoder does not fit your need please also consult us for help.