

CHARACTERISTICS

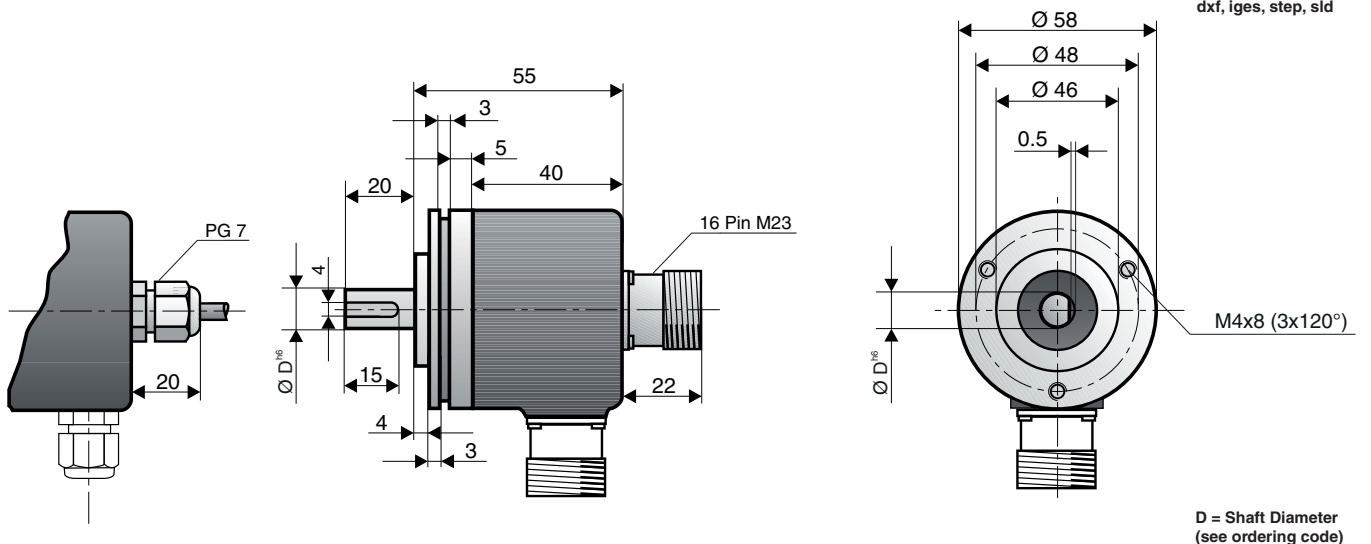
- Industrie Standard Size 58 mm
- Gearless and Battery Free Design
- Shaft Diameter from 6 to 12 mm
- Resolutions Single-Turn from 1 to 16 Bit
- Resolutions Multi-Turn from 1 to 20 Bit
- Supply Voltage 5 VDC or 10 to 30 VDC

MECHANICAL SPECIFICATIONS

Cover & Body	Aluminum
Shaft	Stainless Steel
max. Speed	6000 RPM
Mass moment of inertia	$\leq 2.5 \cdot 10^{-6} \text{ kgm}^2$
Starting Torque (at 25°C)	> 0.05 Nm
max. Loading on Shaft	Axial 40 N, Radial 30 N
Shock resistance (6 ms)	$\leq 2000 \text{ m/s}^2$
Vibration resistance (55 - 2000 Hz)	$\leq 300 \text{ m/s}^2$ (Cable) $\leq 150 \text{ m/s}^2$ (Plug)
Protection Rate (DIN EN 60529)	IP 65
Operating Temperature	-20° C to +70° C +100° C (optional)
Weight	ca. 0.25 kg

DIMENSIONS

Dimensions in mm

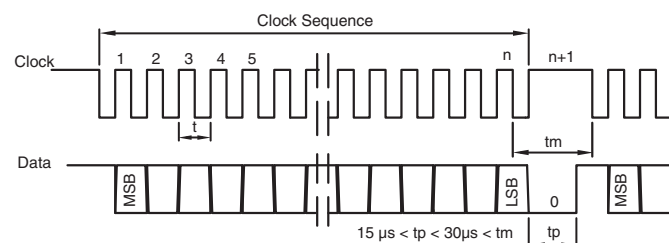


D = Shaft Diameter
(see ordering code)

ELECTRICAL SPECIFICATIONS

Supply Voltage	5 VDC , 10 - 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 → cw, DIR = Vcc → ccw
Preset/Reset Setting	Set: Preset = Vcc for 2s Reset: Preset = GND
Short Circuit Protection	100%
Reverse polarity protection per channel	100%

SIGNALS

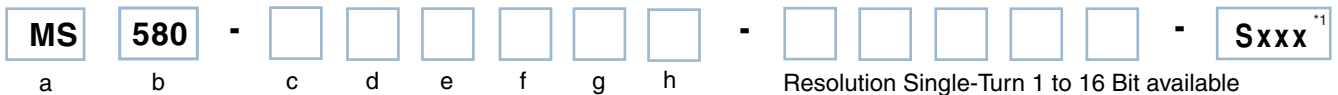


SSI Single Transmission Protocol

CONNECTIONS

Function	Cable Code	12 Pin M23 Plug	8 Pin M12 Plug
GND	white	01	01
Vcc	brown	02	02
SSI Clock +	green	03	03
SSI Clock -	yellow	04	04
SSI Data +	grey	05	05
SSI Data -	pink	06	06
Reset/Preset	blue	07	07
Direction Setting	red	08	08

ORDERING CODE



Resolution Single-Turn 1 to 16 Bit available
Resolution Multi-Turn 1 to 20 Bit available

a Group Function
MS = Multiturn Incremental Solid Shaft

b Basic Series Number
580

c Shaft Diameter D
selectable from 6 to 12 mm
08 = 8 mm, 10 = 10 mm, 12 = 12 mm

d Mechanical Option
0 = None
Y = Blind Hole Hollow Shaft

e Connection Type
0 = 2 m Cable , 7 = 12 Pin M23 Plug
Q = 8 Pin M12 Plug

f Connection Location
A = Axial , R = Radial

g Output Signals
J = Binary Code SSI
Y = Gray Code SSI

h Output Circuit Type / Supply Voltage
F = SSI 5 VDC
G = SSI 10 bis 30 VDC

Notes:

*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.

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“.

