

# INCREMENTAL ENCODER MyINC PROGRAMMABLE

# MINx58

- Programmable incremental optical encoder from 1 to 65536 ppr
- Programmable via USB, without an additional programming box
- Multi-voltage 5...30VDC, automatic power voltage recognition
- Programmable without powering up the encoder
- 0° to 360° reference signal position



## Electrical Data:

### TTL

### HTL

Supply voltage	5-30 VDC	5-30 VDC
Consumption <small>Peak current of 400mA (1ms) at start-up of the encoder</small>	Typical: 45mA Max: 150mA	Typical: 45mA Max: 150mA
Max. load capability / channel	+/- 20 mA	+/- 20 mA
Max. allowed cable length	1200 m	1200 m
Signal level "LOW"	VOL <0,5 VDC	VOL <2,5 VDC
Signal level "HIGH"	VOH >2,5 VDC	VOH >VCC - 1,5 VDC
Frequency	900 kHz	900 kHz
Short circuit protection / Inverse polarity protection	Yes	Yes

## Mechanical Data:

### MINS58

### MINH58

Housing diameter	58 mm	58 mm
Protection, shaft input	IP 65	IP 65
IP Protection class, housing	IP 65	IP 65
Flange types	Clamping flange	Spring tether
Shaft diameter	Solid shaft 6 mm x 10 mm 10 mm x 20 mm	Hub shaft 10, 12, 14, 15 mm
Max. speed	6,000 min <sup>-1</sup> Continuous operation	6,000 min <sup>-1</sup> Continuous operation
	≤ 0,01 N m	≤ 0,02 N m
Moment of inertia, rotor	30 gcm <sup>2</sup>	30 gcm <sup>2</sup>
	axial 40 N radial 80 N	axial 40 N radial 80 N
Shock resistance DIN EN 60068-2-27	1,000 m/s <sup>2</sup> (6 ms) 100 m/s <sup>2</sup> (10 ... 2,000 Hz)	1,000 m/s <sup>2</sup> (6 ms) 100 m/s <sup>2</sup> (10 ... 2,000 Hz)
Working temperature	-20...+80 °C	-20...+80 °C
Weight, approx.	500 g	



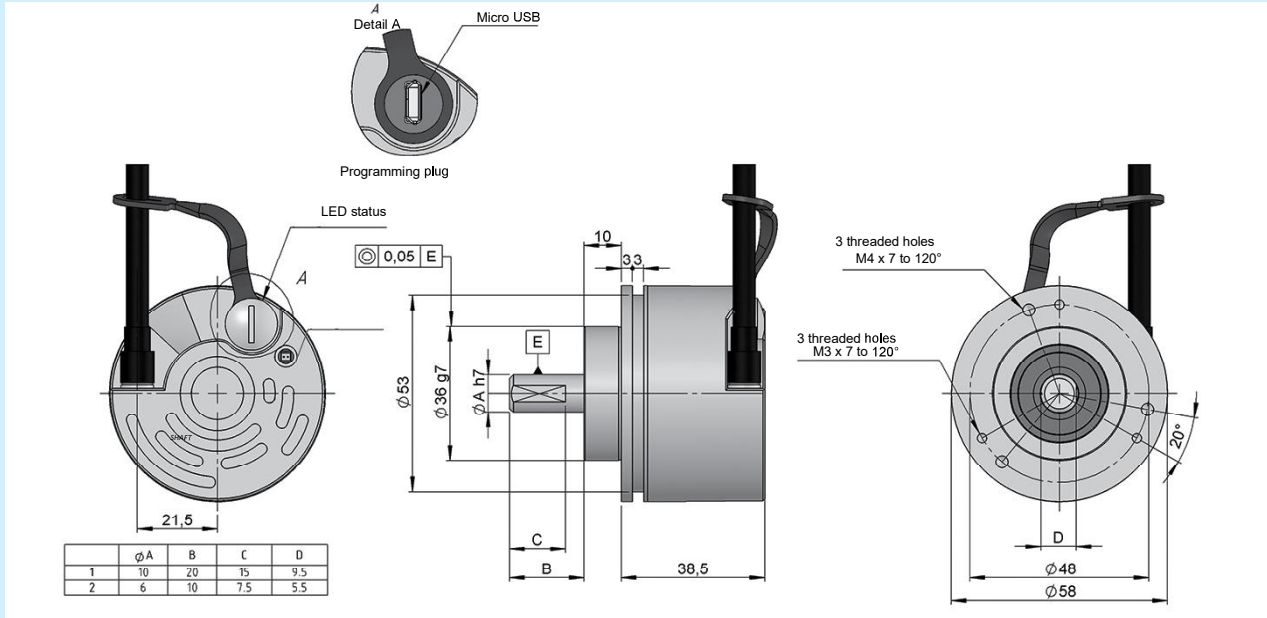
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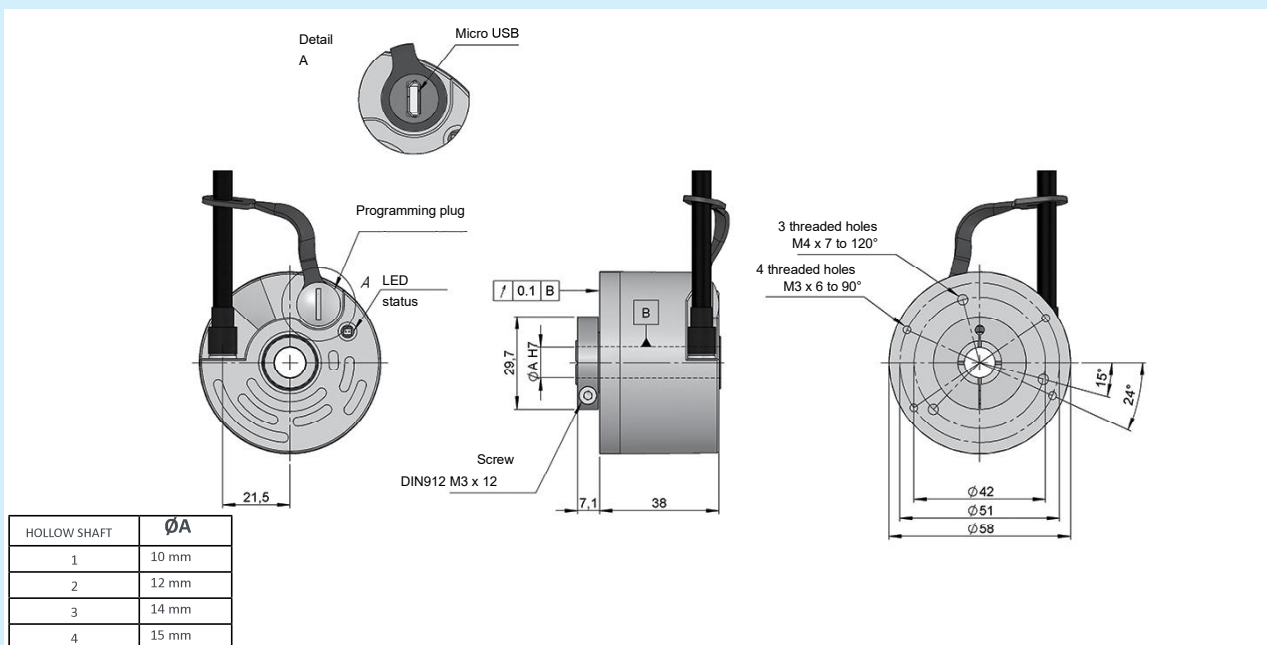
Dimensioned drawing

Cable

MINS58



MINH58



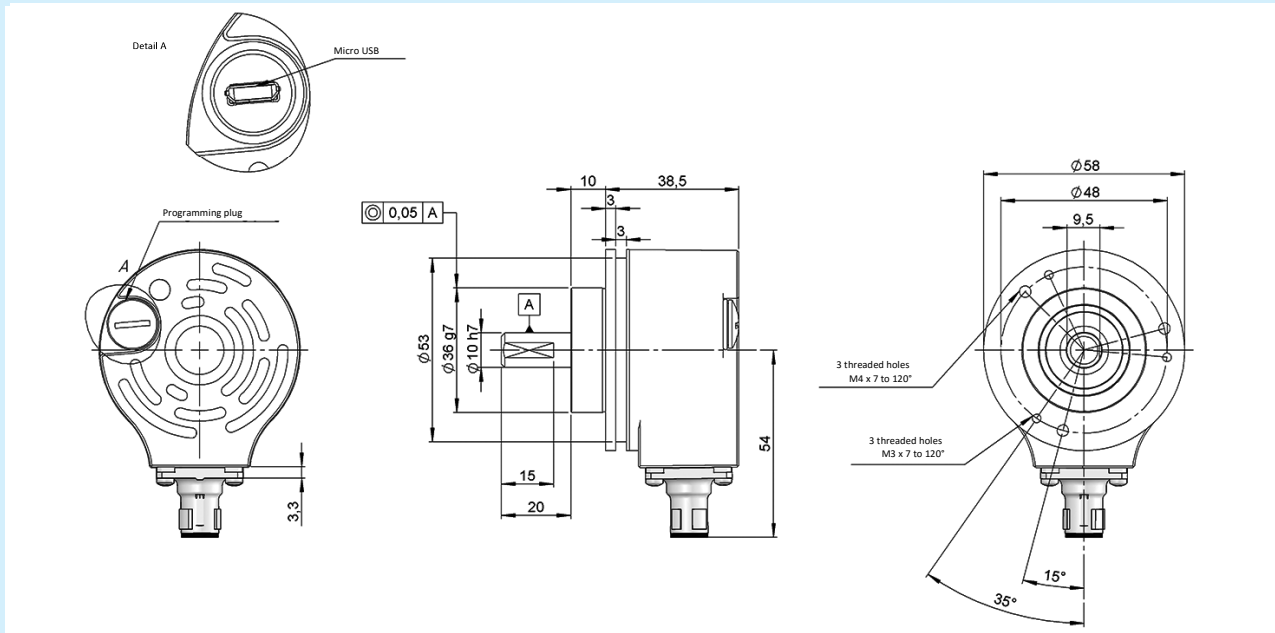
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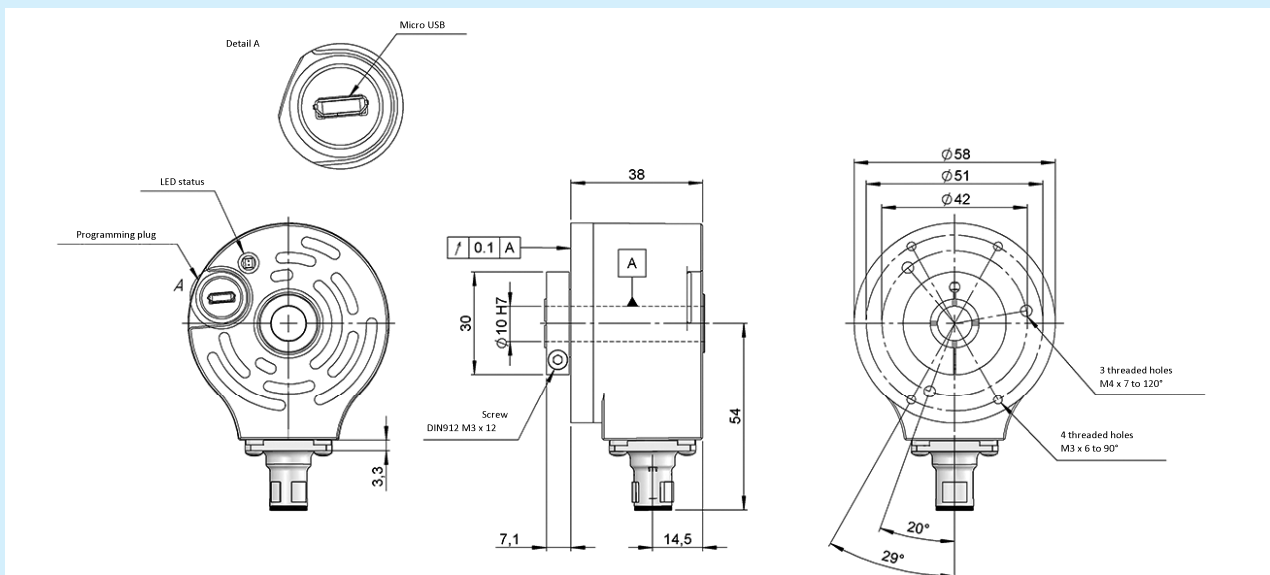
Dimensioned drawing

M12 connect

MINS58



MINH58



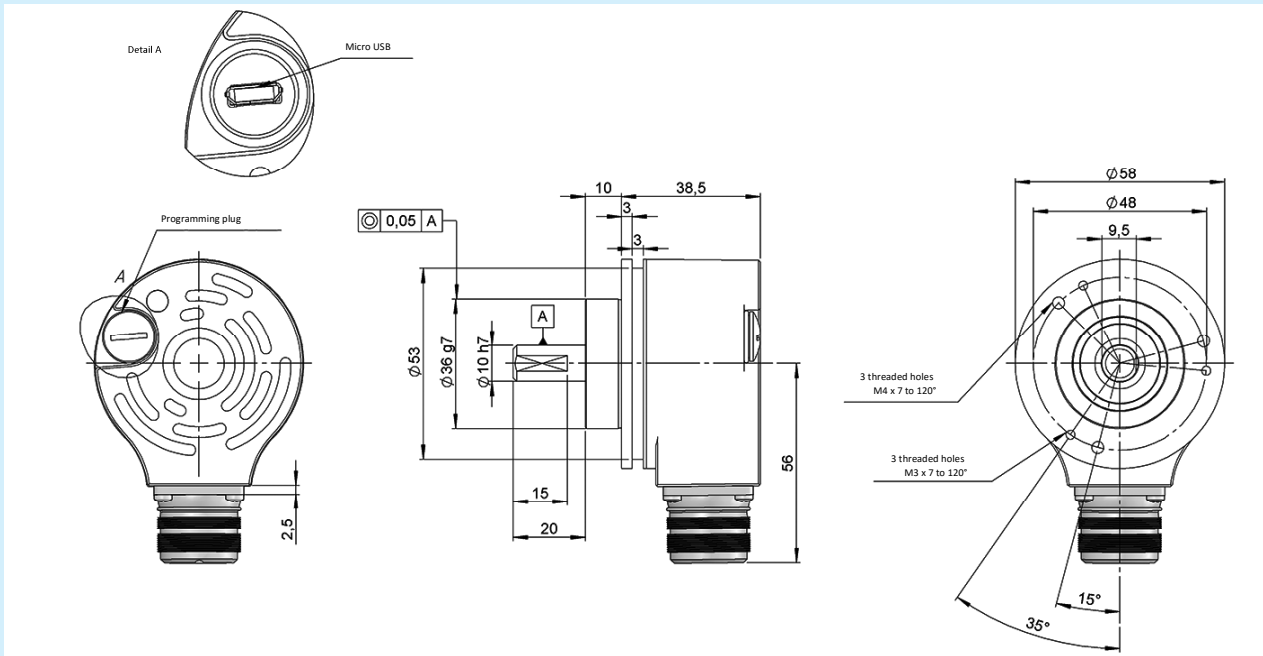
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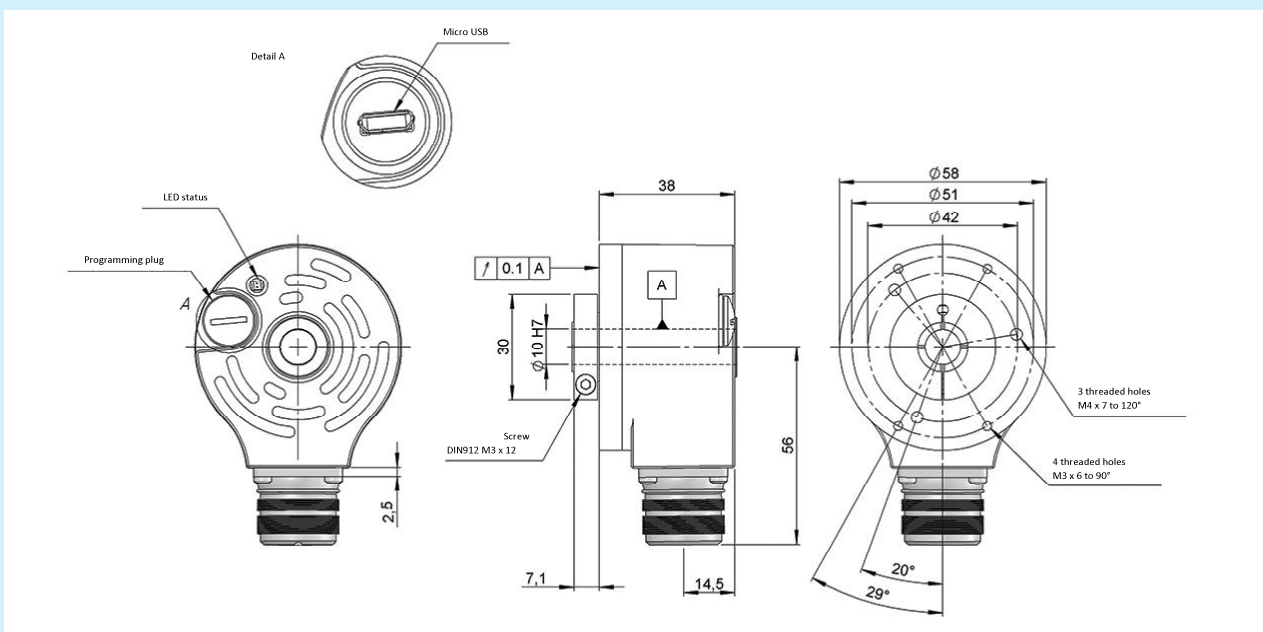
Dimensioned drawing

M23 connector

MINS58



MINH58



## Programming

### LED status:

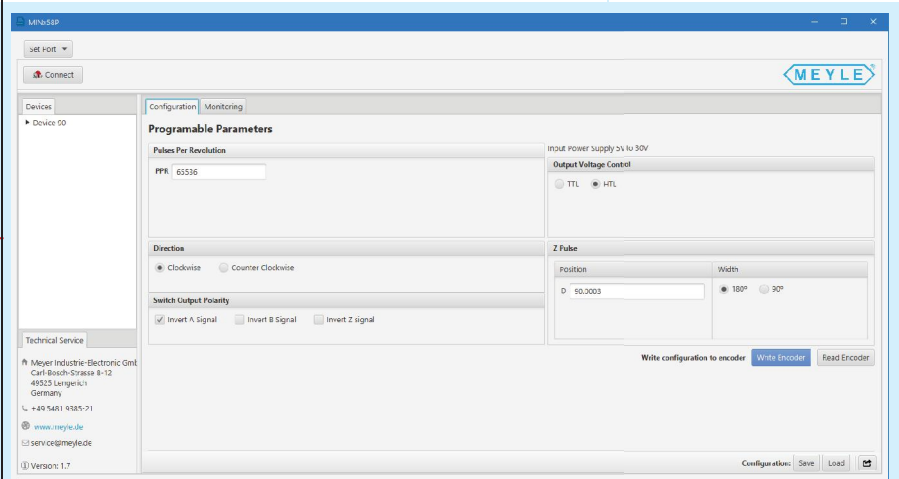
● *green intermittent indicator:*  
Communication between devices

● *red indicator:*  
Error detection (overload, low power, optical failure, communications failure, humidity...)  
See type of error in the programming software

### Factory configuration:

- Pulses: 4096 ppr
- Output: HTL
- Direction: Clockwise (CW)
- Position (Z pulse): 0°
- Width (Index, Z, 0): 90°

### Configuration options:



## Connection



**3R**  
Cable  
4x2x0,14



**MR**  
M12 8p  
CCW

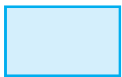


**8R**  
M23 12p  
CCW

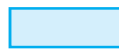
GND	Black	7	10
VCC	Red	8	12
A	Yellow	2	5
B	Green	4	8
$\tilde{A}$	Brown	1	6
$\tilde{B}$	Blue	3	1
0 (reference)	Grey	6	3
$\tilde{0}$	Orange	5	4

Shield connected to the housing

## ORDERING CODE



**MINS58**  
Incremental shaft encoder



**Shaft Ø**  
06 = 6 x 10mm  
10 = 10x20mm



**Supply voltage**  
A5 = 5-30VDC  
HTL/TTL



**Output signals**  
9 = A, A/, B, B/, 0, 0/



**Connection**  
3R = cable gland  
+2m cable  
8R = M23,  
12pol. connector  
MR = M12,  
8pol. connector



**Resolution**  
1 - 65536ppr  
(Factory set 4096ppr)

**MINH58**  
Incremental hollow shaft encoder

### Hollow Shaft Ø

10 = 10mm  
12 = 12mm  
14 = 14mm  
15 = 15mm