

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	Typical: 45mA	Typical: 45mA
Peak current of 400mA (1ms) at start-up of the encoder	Max: 150mA	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 /	Yes	Yes
Inverse polarity protection		

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 ⁻¹ Continuous operation	6,000 min ⁻¹ Continuous operation
	≤ 0,01 N m	≤ 0,02 N m
Moment of inertia, rotor	30 gcm ²	30 gcm ²
	axial 40 N	axial 40 N
	radial 80 N	radial 80 N
Shock resistance DIN EN 60068-2-27	1,000 m/s ² (6 ms)	1,000 m/s ² (6 ms)
	100 m/s ² (10 ... 2,000 Hz)	100 m/s ² (10 ... 2,000 Hz)
Working temperature	-20...+80 °C	-20...+80 °C
Weight, approx.	500 g	



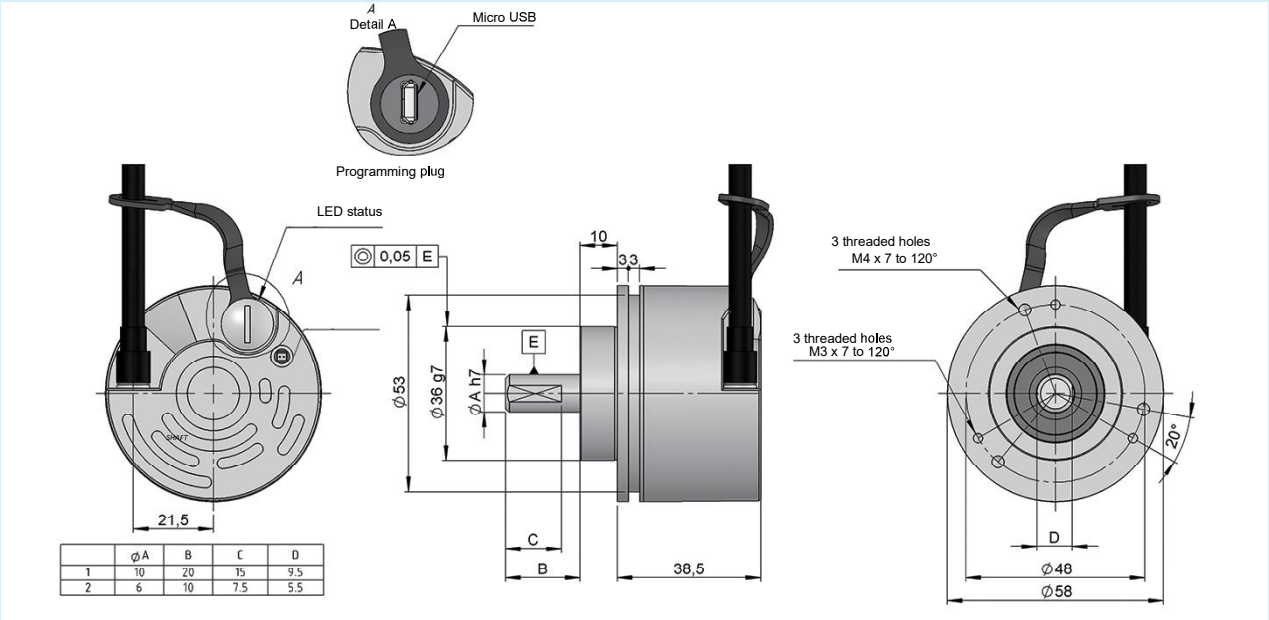
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PROGRAMMABLE

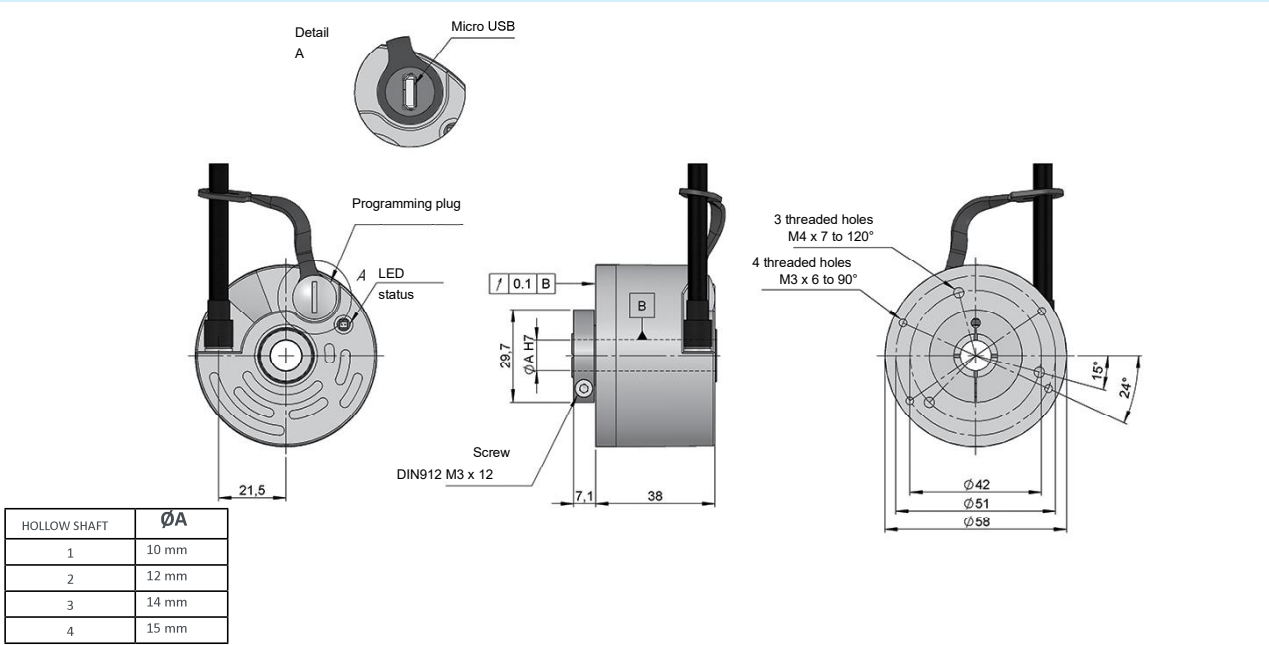
MINx58

Dimensioned drawing

Cable
MINS58



MINH58



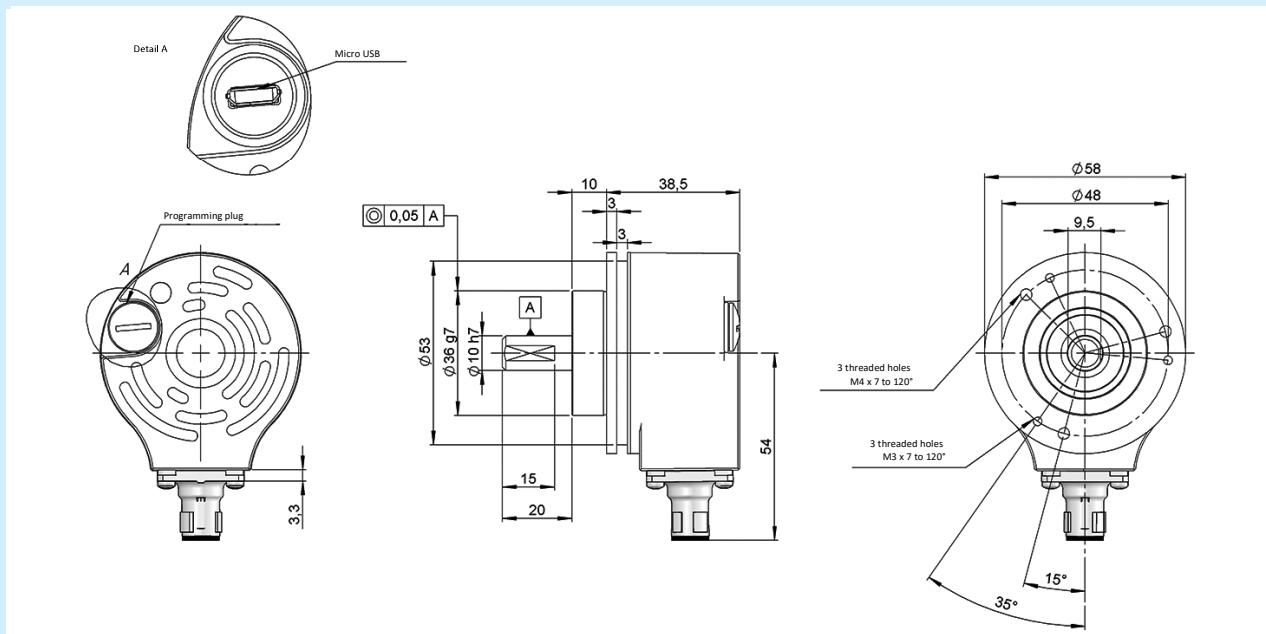
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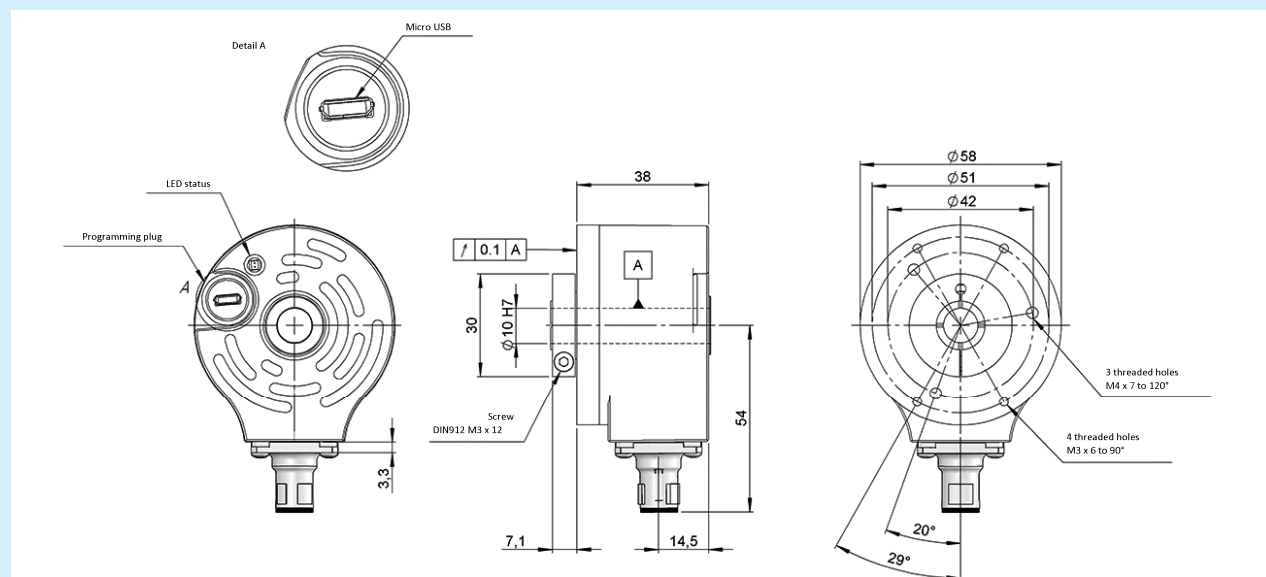
Dimensioned drawing

M12 connect

MINS58



MINH58



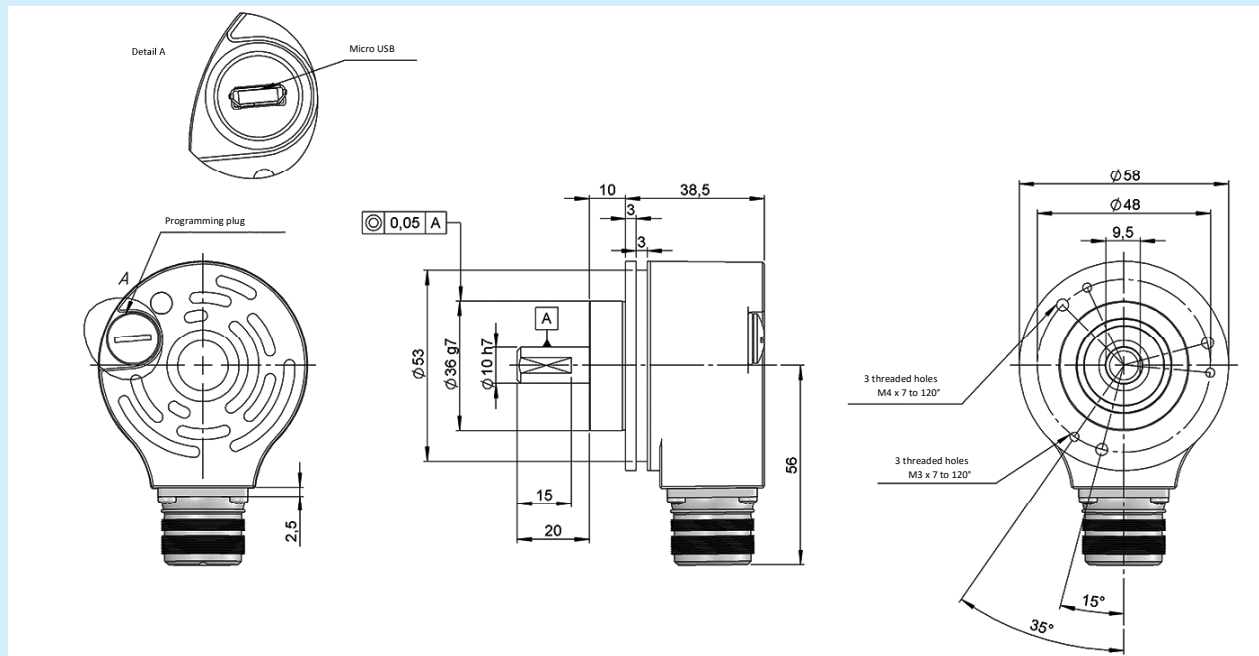
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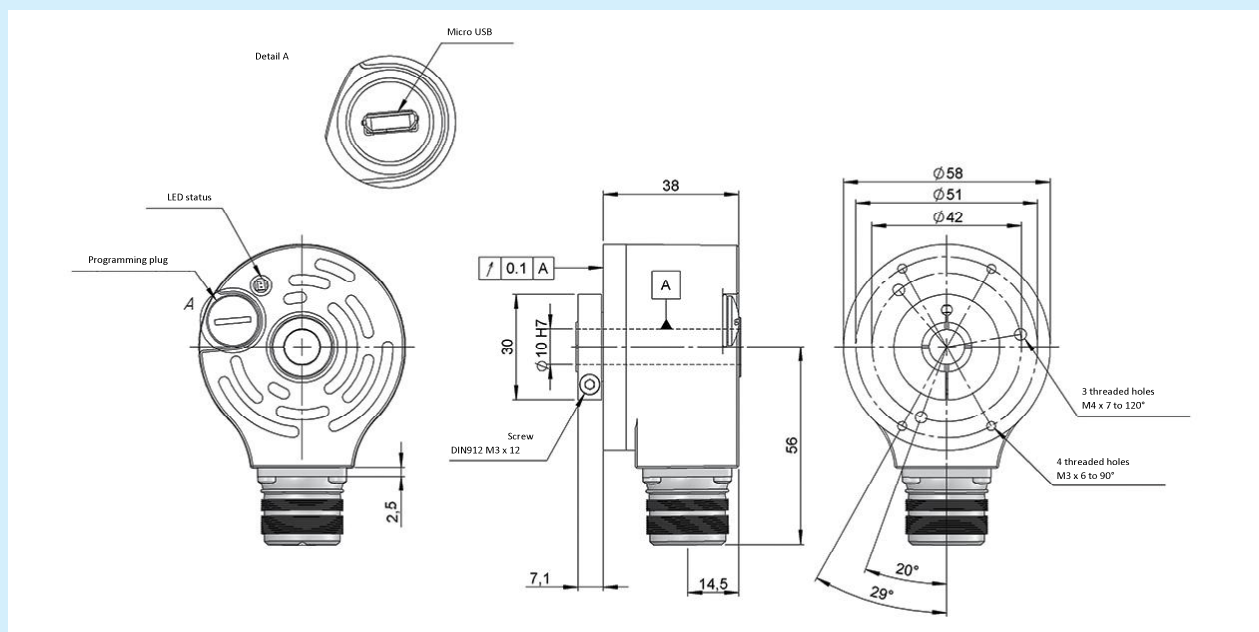
Dimensioned drawing

M23 connector

MINS58



MINH58



Programming

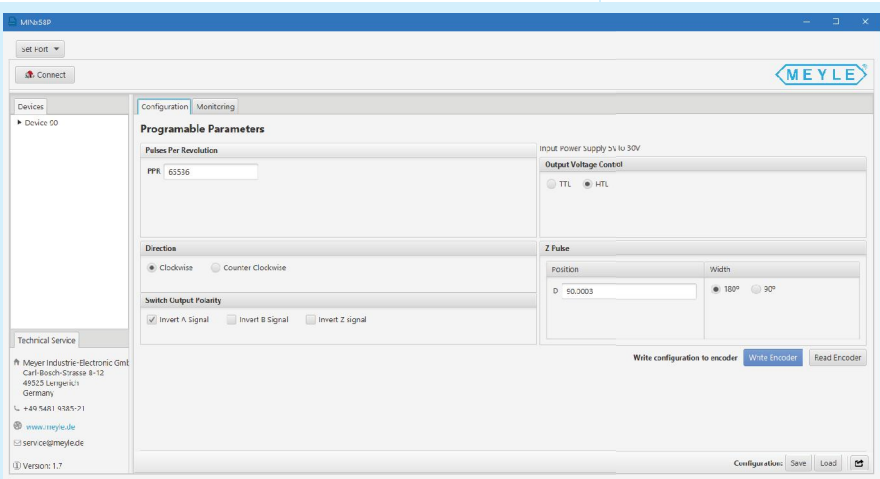
LED status:

- *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

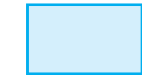


8R
M23 12p
CCW

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

Shield connected to the housing

ORDERING CODE



MINS58
Incremental shaft encoder

MINH58
Incremental hollow shaft encoder



- Shaft Ø**
06 = 6 x 10mm
10 = 10x20mm
- Hollow Shaft Ø**
10 = 10mm
12 = 12mm
14 = 14mm
15 = 15mm



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)