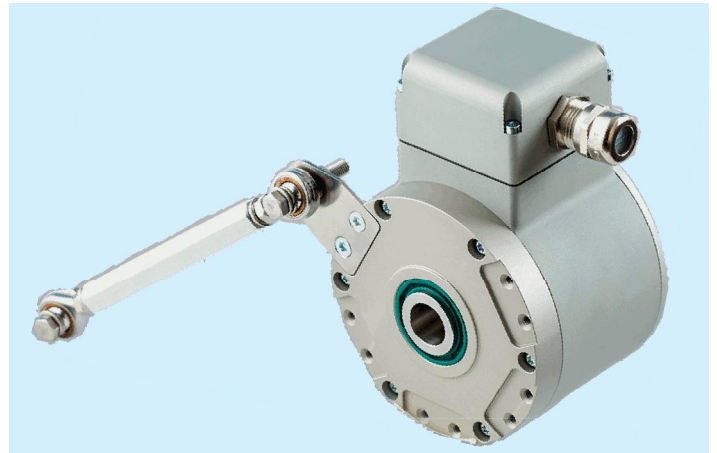


- Heavy duty
- Incremental optical encoder up to 5.000 ppr
- External diameter 100 mm
- Dual output available
- Integrated bearing insulation up to 2,5 kV
- IP66 according to DIN EN 60529



Electrical Data:

TTL

HTL

Supply voltage	5 VDC or 9-30VDC / RS422	9-30 VDC Line Driver /Push-Pull
Consumption Peak current of 400mA (1ms) at start-up of the encoder	Typical: 70mA or 80mA Max: 200mA	Typical: 45mA Max: 200mA
Max. load capability / channel	+/- 20 mA	+/- 30 mA
Max. allowed cable length	1200 m	100 m
Signal level "LOW"	VOL <0,5 VDC	VOL <2,5 VDC
Signal level "HIGH"	VOH >2,5 VDC	VOH >VCC - 3 VDC
Frequency	300 kHz	200 kHz
Short circuit protection / Inverse polarity protection	Yes	Yes

Mechanical Data:

MINS100

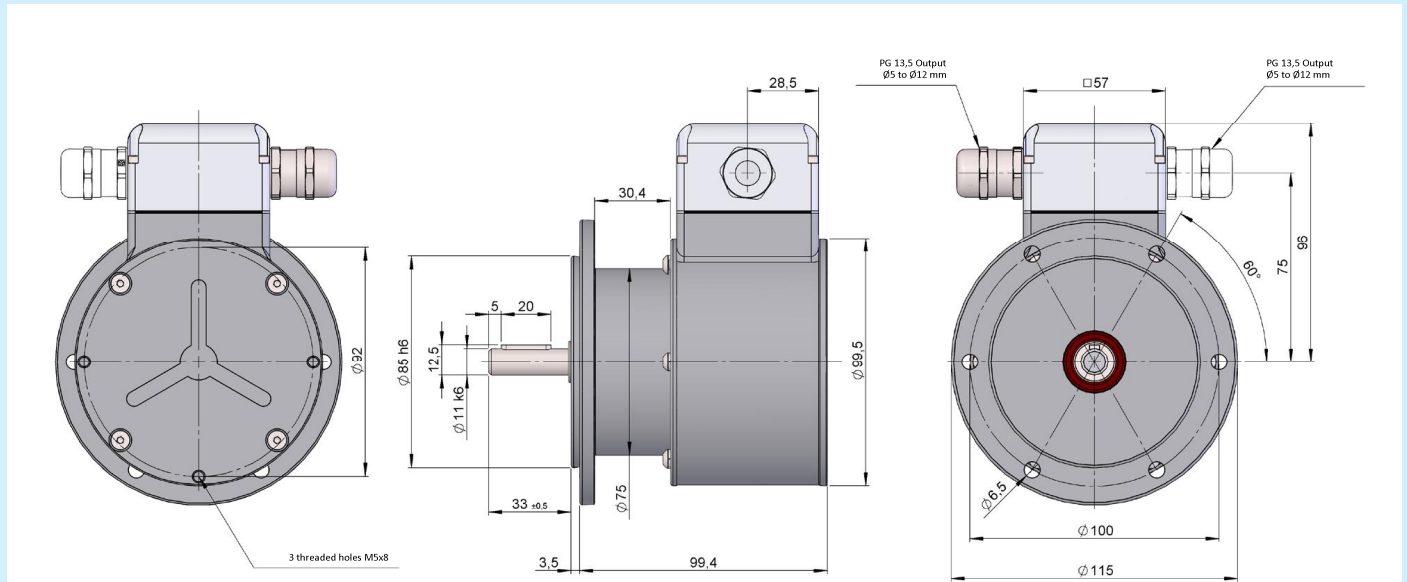
MINH100

Housing diameter	100 mm	100 mm
Protection acc. DIN EN 60529	IP 66	IP 66
Flange types	Clamping flange	Spring tether
Shaft diameter	Solid shaft 11 mm x 33 mm	Hub shaft 12, 16 mm
Shaft insulation	2,5 kV	2,5 kV
Max. speed	6,000 min ⁻¹ Continuous operation	6,000 min ⁻¹ Continuous operation
Starting Torque	≤ 0,06 Nm	≤ 0,06 Nm
Moment of inertia, rotor	250 gcm ²	500 gcm ²
Absolute max. shaft loadhaft load	axial ≤ 350 Nm radial ≤ 450 Nm	axial ≤ 400 Nm radial ≤ 500 Nm
Shock resistance DIN EN 60068-2-27	2,500 m/s ² (6 ms)	2,500 m/s ² (6 ms)
Vibration resistance DIN EN 60068-2-6	300 m/s ² (10 - 2,000Hz)	300 m/s ² (10 - 2,000Hz)
Working temprature	-20...+80 °C	-20...+80 °C
Weight, approx.	1800 g	1700 g

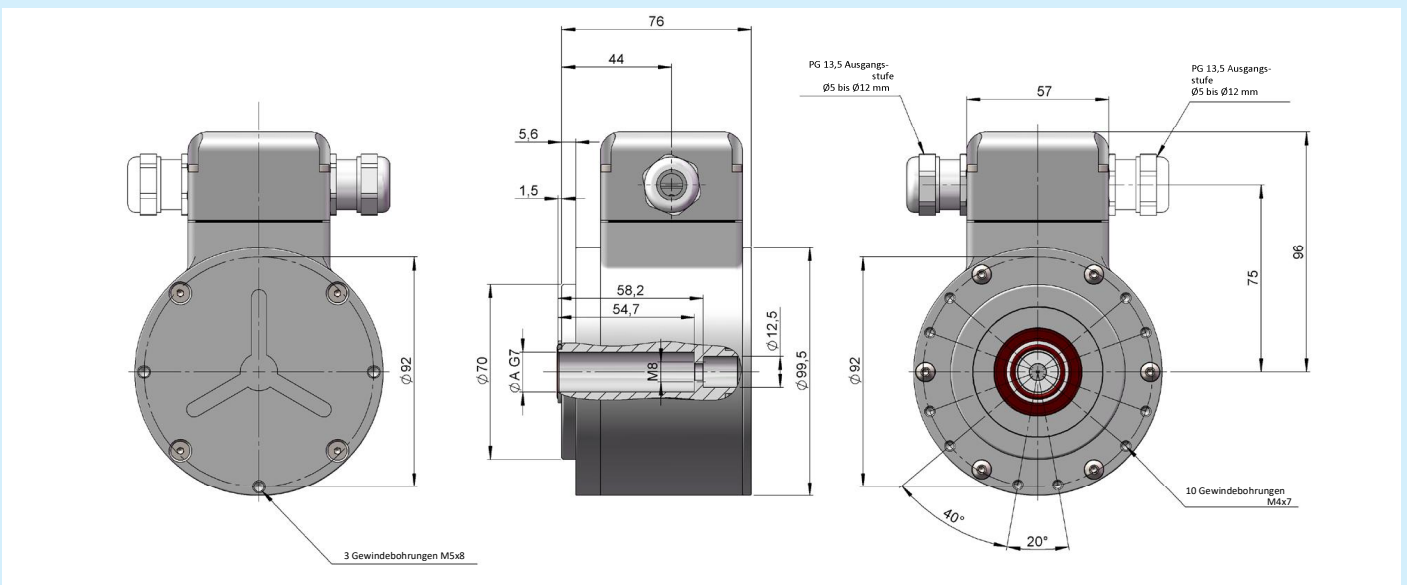
Dimensioned drawing

Cable

MINS100



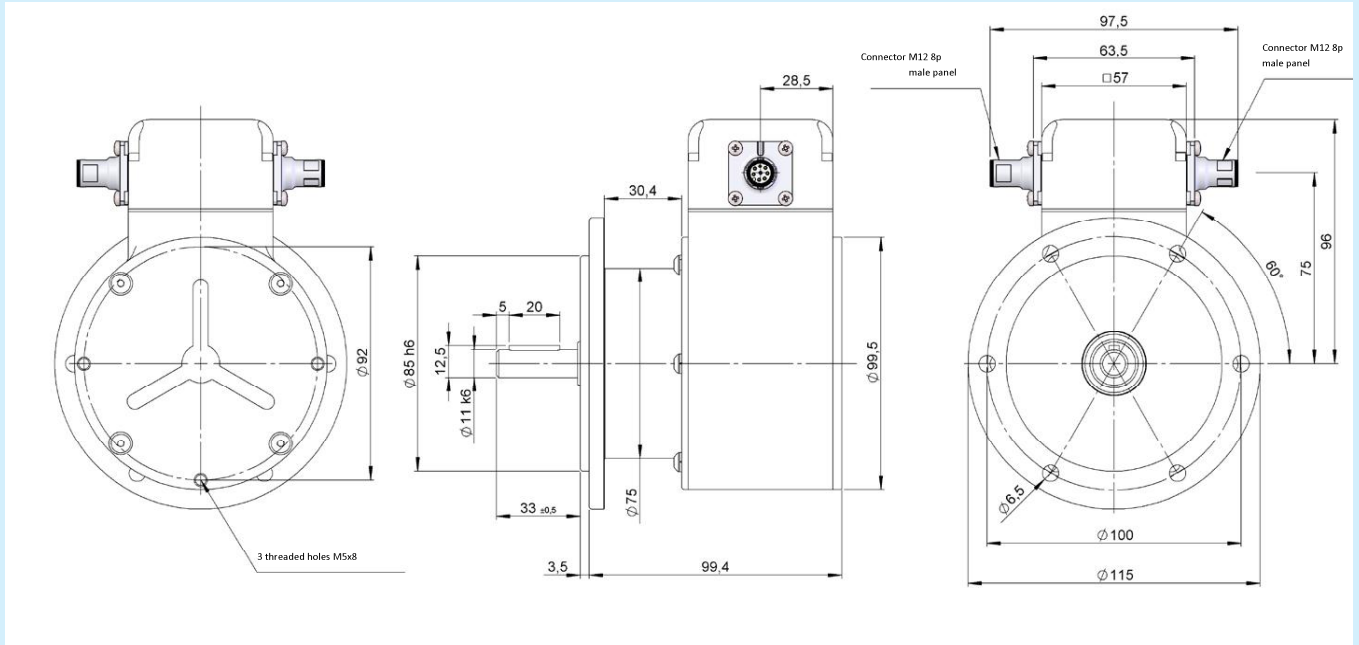
MINH100



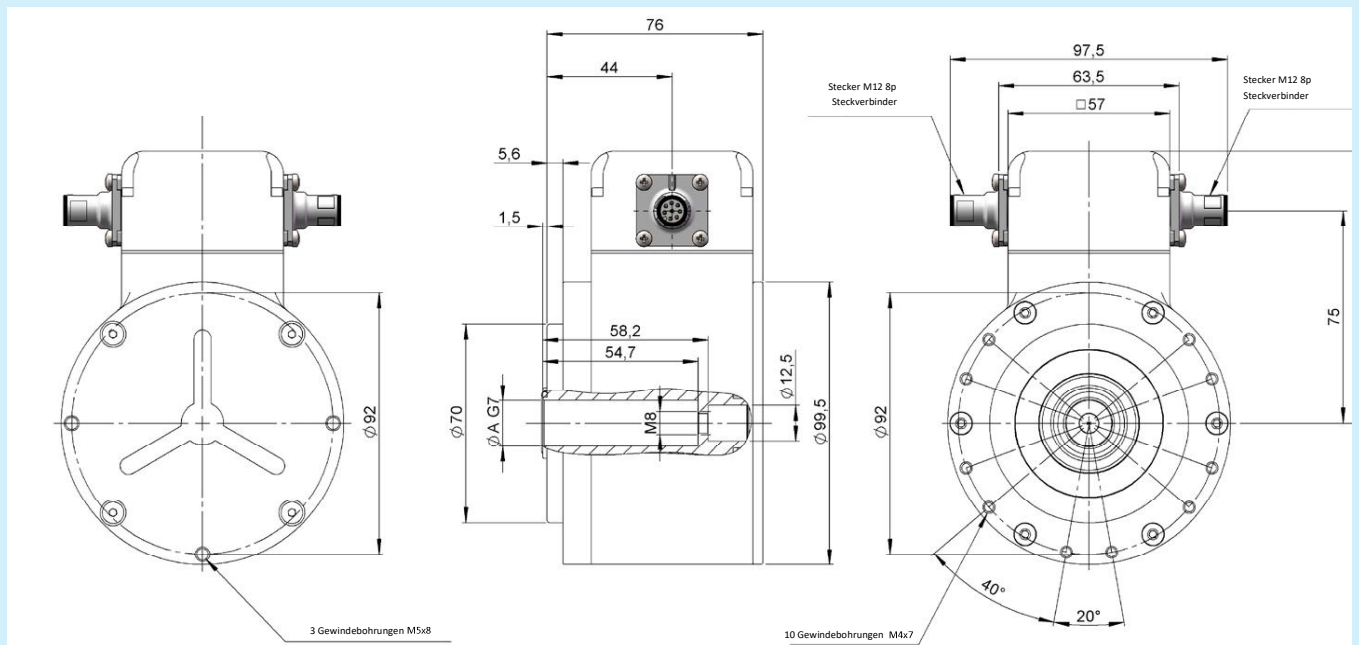
Dimensioned drawing

M12 connect

MINS100



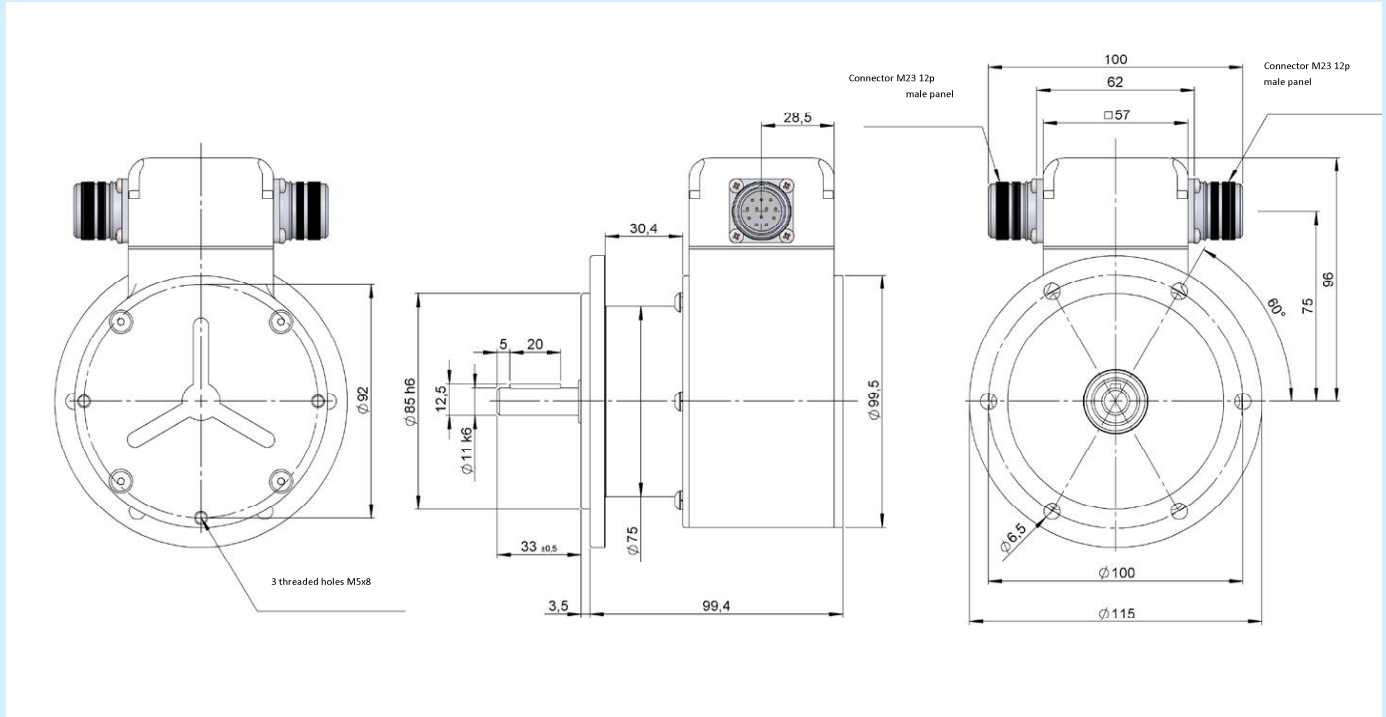
MINH100



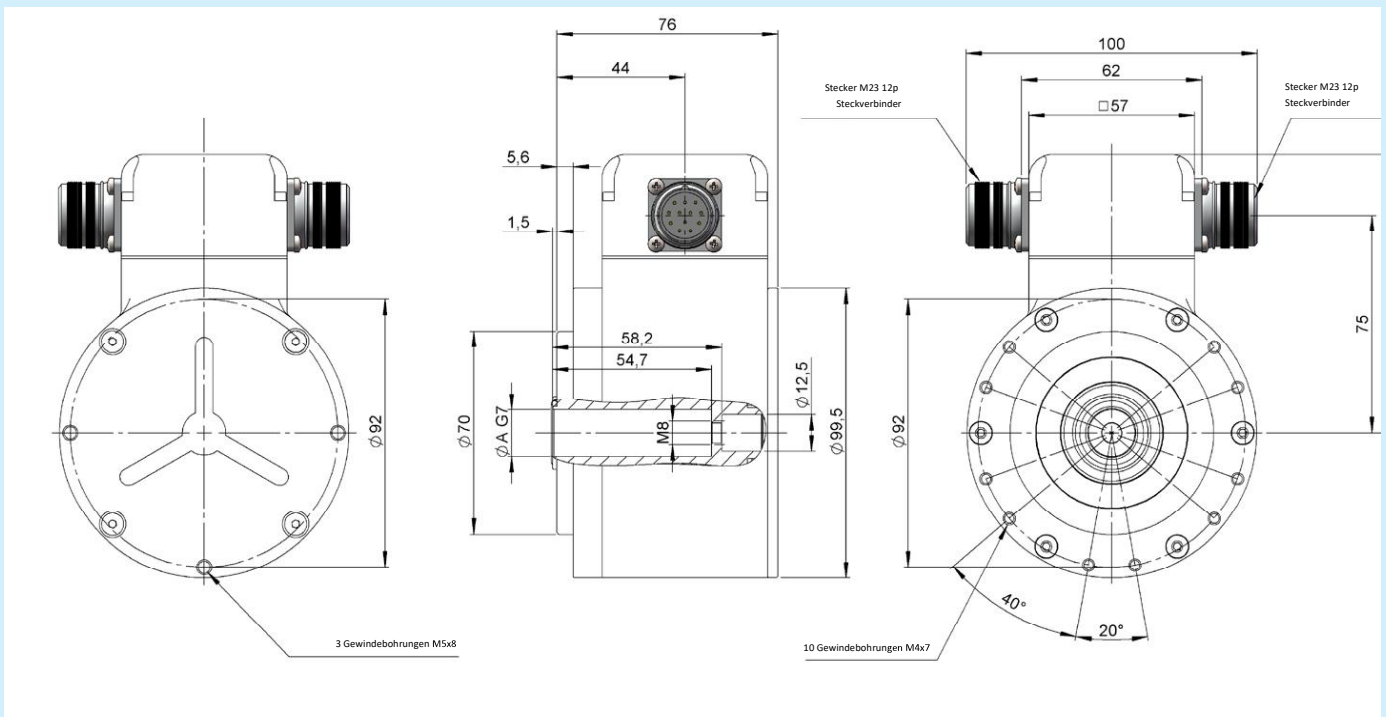
Dimensioned drawing

M23 connector

MINS100



MINH100



Connection



3R
Cable
4x2x0,14

MR
M12 8p
CCW

6R
M23 12p
CW

BR
Terminal Box

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

Shield connected to the housing

ORDERING CODE



MINS100
Inkremental shaft encoder

MINH100
Inkrmntal hollow shaft encoder



Shaft Ø
11 = 11 x 33mm

Hollow Shaft Ø
12 = 12mm
16 = 16mm



Output circuit
2 = 5VDC TTL/
RS422
5 = 9-30VDC
Push-Pull
8 = 9-30 VDC /
RS422 TTL



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



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



Resolution ppr
Single Output
1024
2048
2500
4096
5000
Dual Output
1024D
2048D
other on request