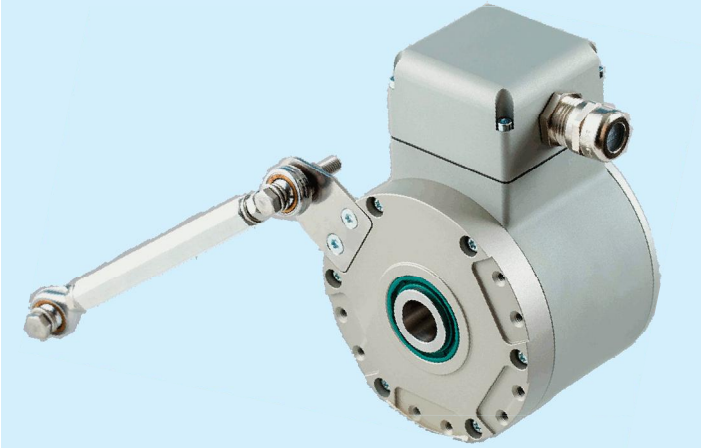
INCREMENTAL ENCODER MyINC

MINx100

- 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} Continous operation	6,000 min-1 Continous operation
Starting Torque	≤ 0,06 Nm	≤ 0,06 Nm
Moment of inertia, rotor	250 gcm²	500 gcm²
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/s2 (6 ms)
Vibration resistance DIN EN 60068-2-6	300 m/s^2 (10 - 2,000Hz)	300 m/s2 (10 - 2,000Hz)
Working temprature	-20...+80 °C	-20...+80 °C
Weight, approx.	1800 g	1700 g

MEYLE

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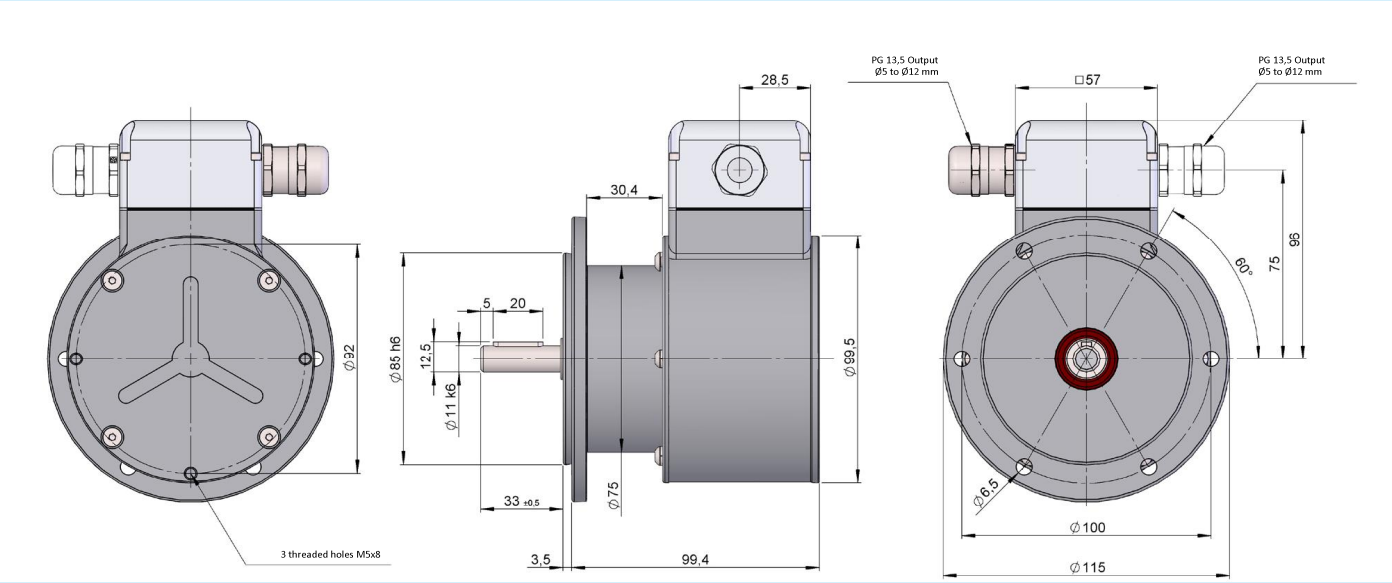
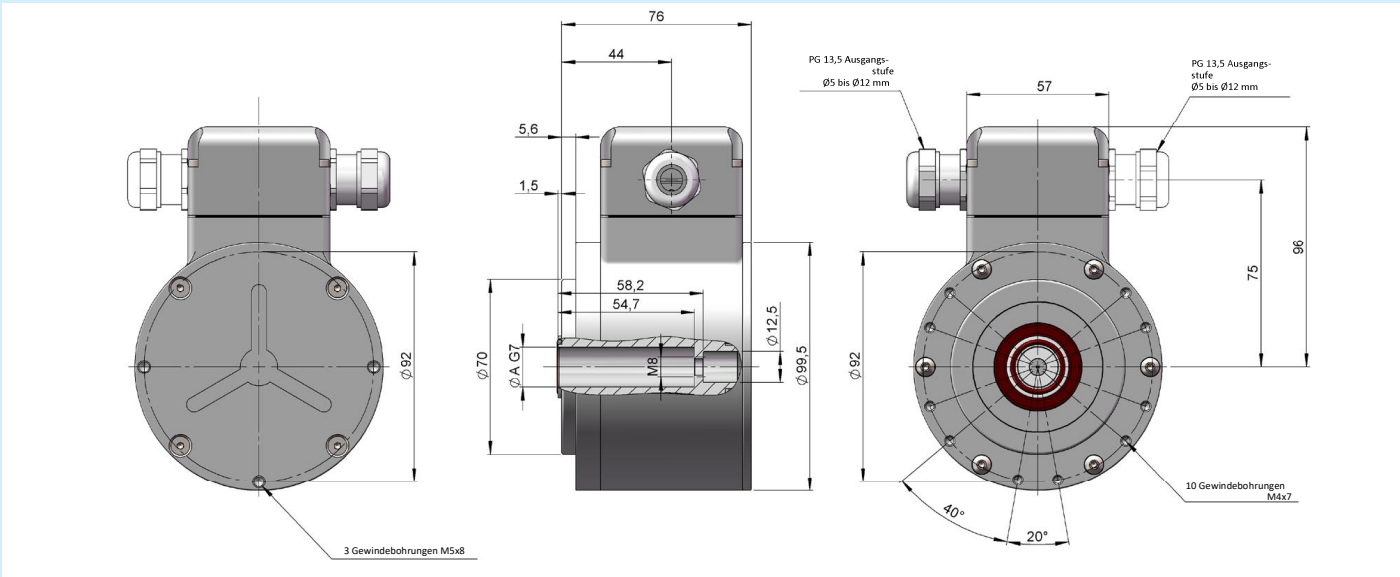
Dimensioned drawing

Cable

MINS100



MINH100



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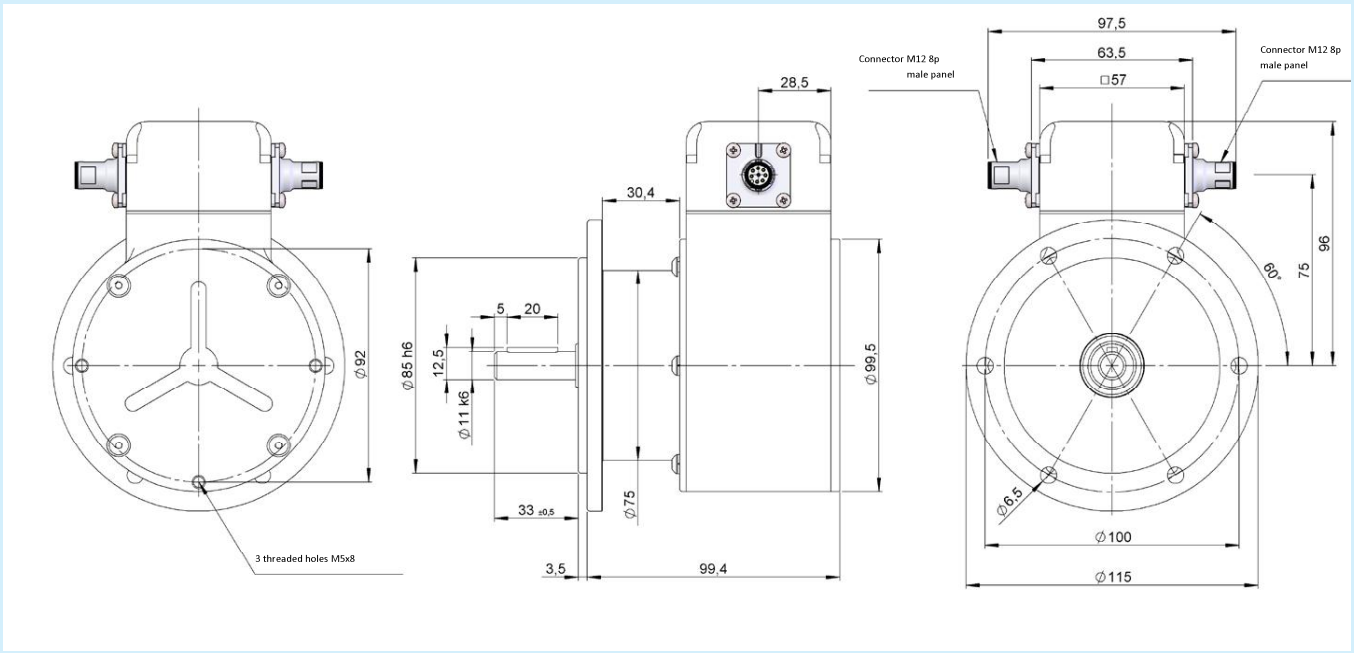
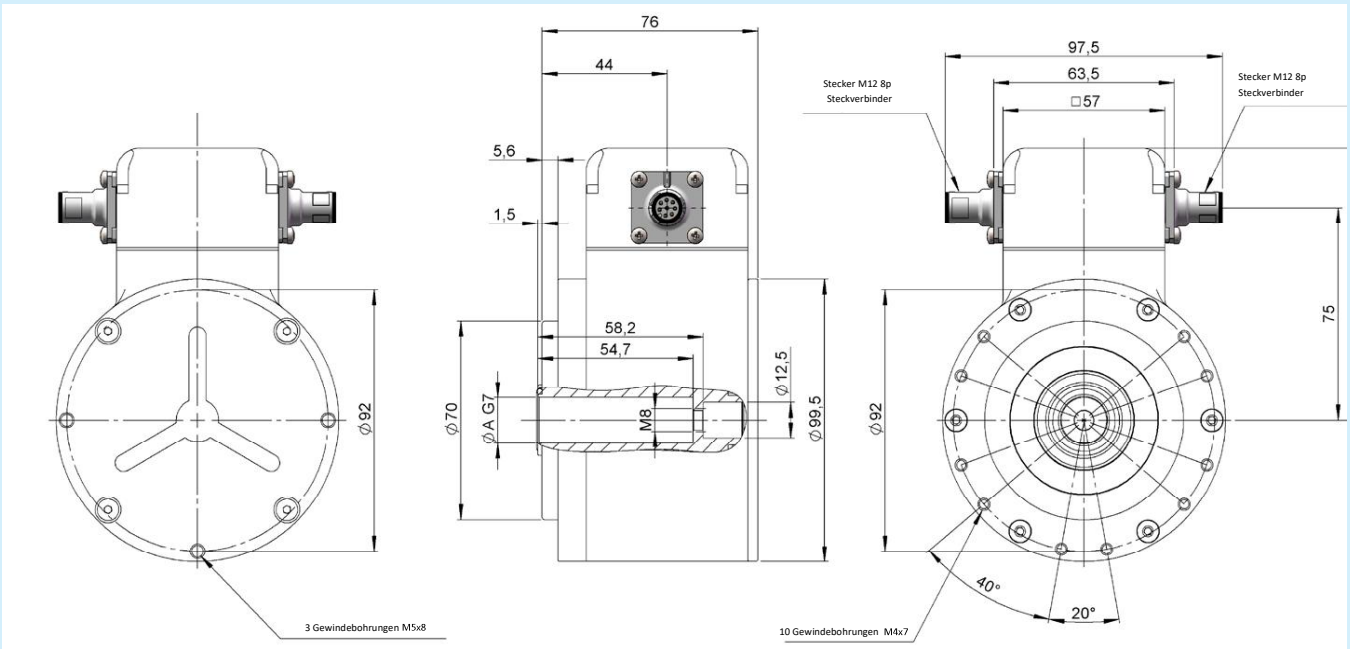
Dimensioned drawing

M12 connect

MINS100



MINH100



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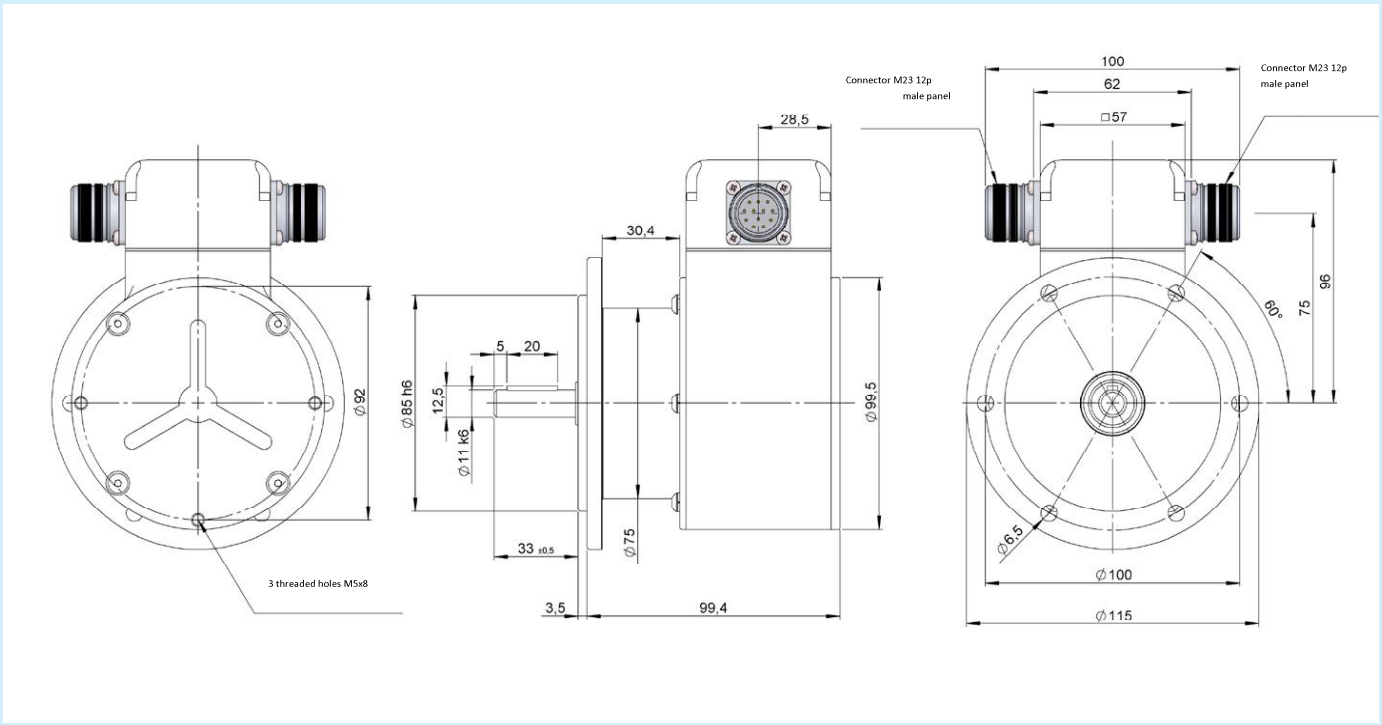
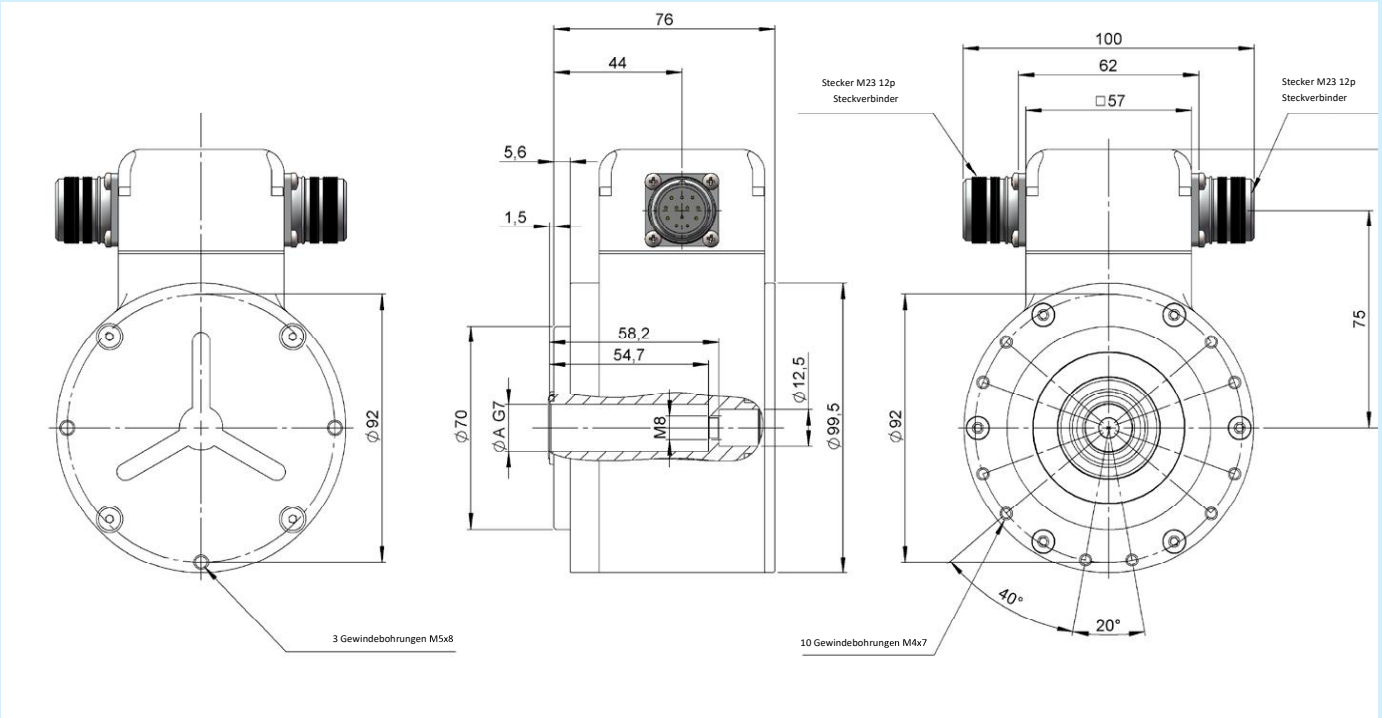
Dimensioned drawing

M23 connector

MINS100



MINH100



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MINx100

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
$\tilde{A}$	Brown	5	5	$\tilde{A}$
$\tilde{B}$	Blue	6	6	$\tilde{B}$
0 (reference)	Grey	7	7	0
$\tilde{0}$	Orange	8	8	$\tilde{0}$

Shield connected to the housing

ORDERING CODE

MINS100
Inkremental shaft encoder

MINH100
Inkrmental 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

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