

- Up to 14.000 Hz Scanrate
- Resolution as low as 0.3 μm
- Special algorithms for glossy materials
- AOI in x and z possible
- Master-Slave configuration for multi-scanner-operation
- Software Developer Kit
- Free test software for feasibility tests



Scanner Type
Range Z [mm]
Range X Begin [mm]
Range X Middle (nominal) [mm]
Range X End [mm]
Standoff z-Range Begin [mm]
Working Distance z-Range (nominal) [mm]
Resolution in x [μm]
Resolution in z [μm]*(numerical best case)
Resolution in z [μm](real example: Steel)

* numerical resolution with 4 subpixel

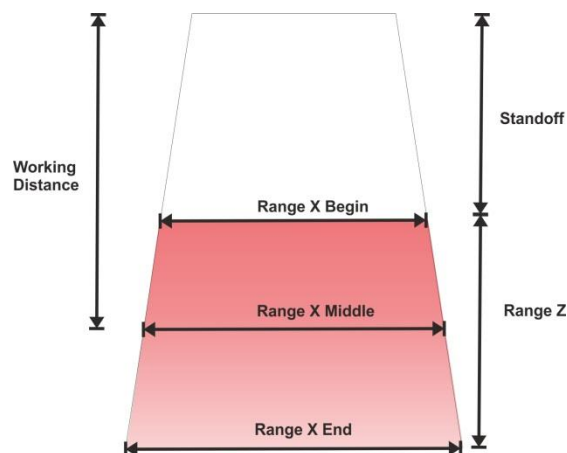
Q5								
5	10	20	30	45	75	240	570	880
5	10	20	30	45	75	240	572	879
9,1	13,8	24,1	34,0	47,0	70,0	153,0	275,0	336,0
10,4	16,1	28,7	38,0	54,0	89,0	186,0	436,0	684,0
11,6	18,4	33,2	42,0	62,0	108,0	219,0	609,0	1022,0
28,9	33,1	42,5	91,0	85,0	75,0	409,0	330,0	302,0
31,4	38,1	52,5	106,0	107,5	112,5	529,0	616,0	741,5
5,1	7,9	14,0	18,6	26,4	43,5	90,8	212,9	334,0
0,3	0,6	1,2	1,7	2,6	4,4	13,8	32,6	51,3
1,6	2,9	5,8	8,7	13,0	21,8	69,2	162,8	256,3

Scan Rate
3D Algorithms
possible optical characteristics
Linearity
Light source
Ambient light max.
Vibration/ Shock

Humidity
Trigger
Encoder input
Supply power
Storage Temperature
Operating temperature
Ethernet connector
Supply connector
Operating temperature
Protection class

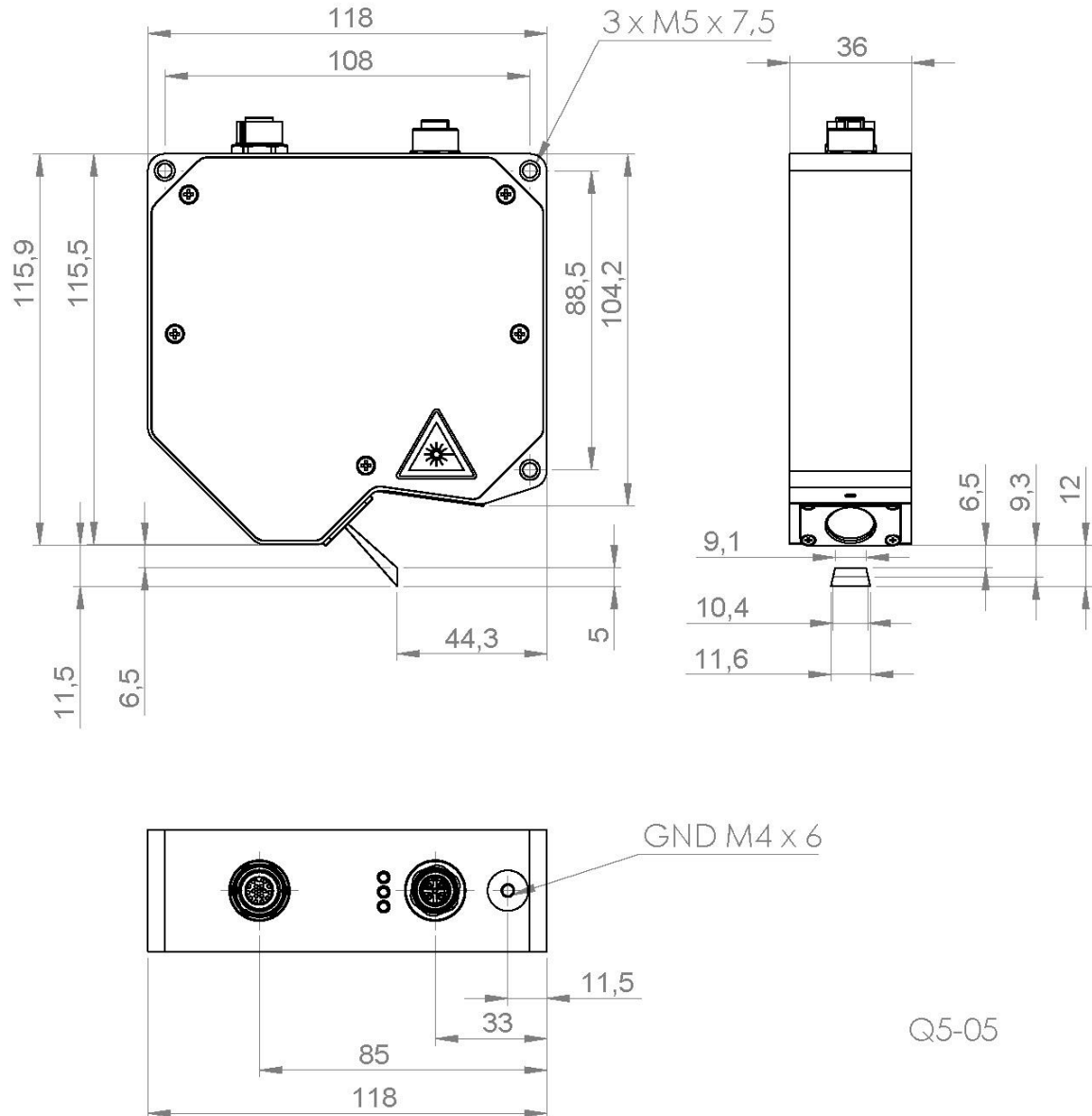
Other features

Values	Options
up to 14000 Profiles/s with AOI	Software ProfileCaptureT, SDK and EVT interface
COG, Finite Impulse Response (FIR), Threshold transparent, white to dark, shiny, highly reflective, polished, rough	
< 0,06 % of FS	
Laser, 650 nm, red	405/450 nm blue, 550 nm green
10 000 Lux	
Vibration 10 g 10 bis 150 Hz (DIN EN 60068-2-6)	
Shock 30 g 18 ms (DIN EN 60068-2-27)	
< 90% RH	
Encoder based	
RS422	
24 V	
-20°C to +70°C	
0°C to +40°C	
M12, 4-pin, female	
M12, 17-pin	
0°C to +40°C	
IP 64, optional IP 67	Cooling Module up to 400°C ambient temperature, Protection Window
Temperatur sensor built in for Laser Diode protection	

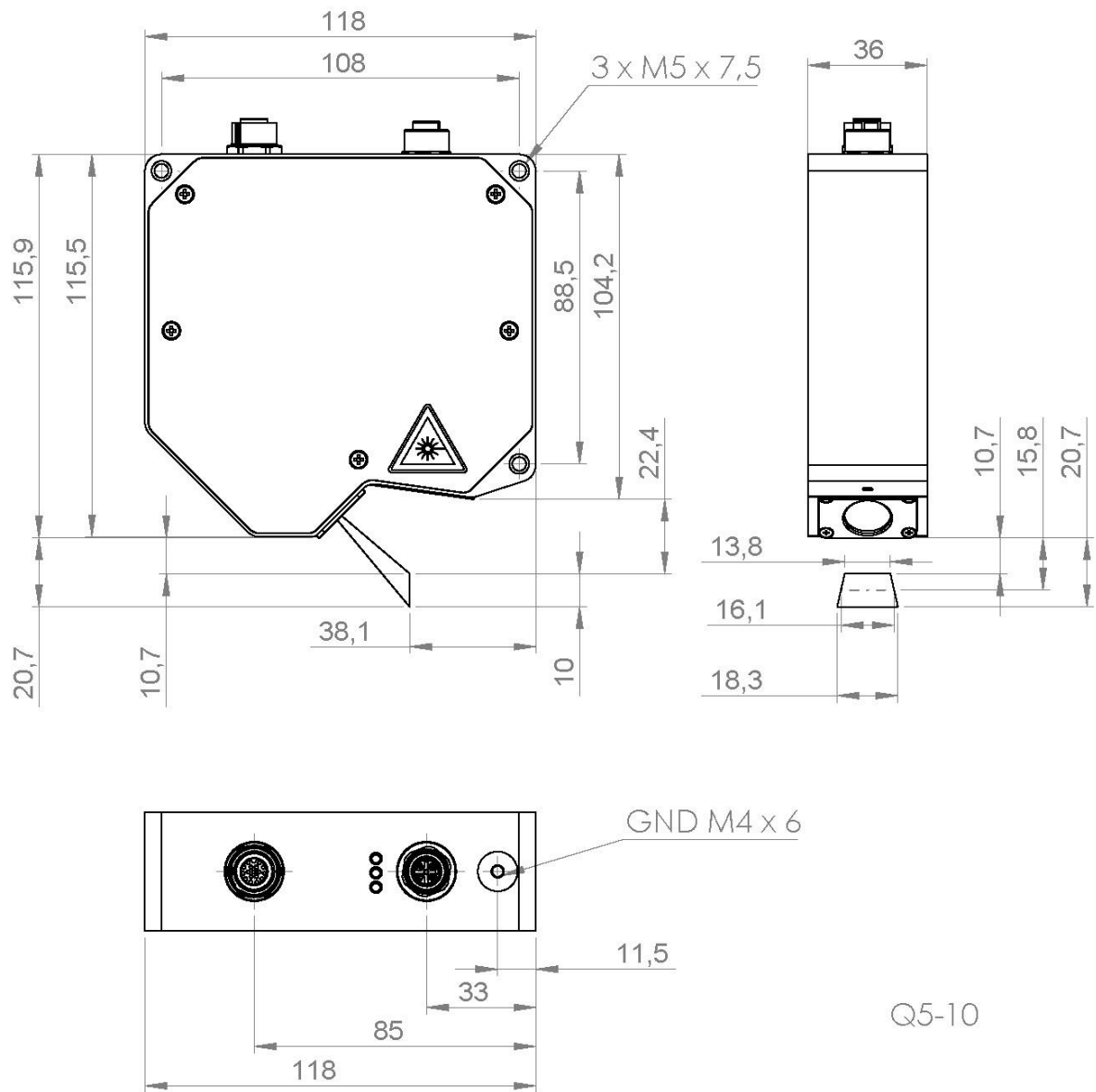


Technical Drawings

Q5-5



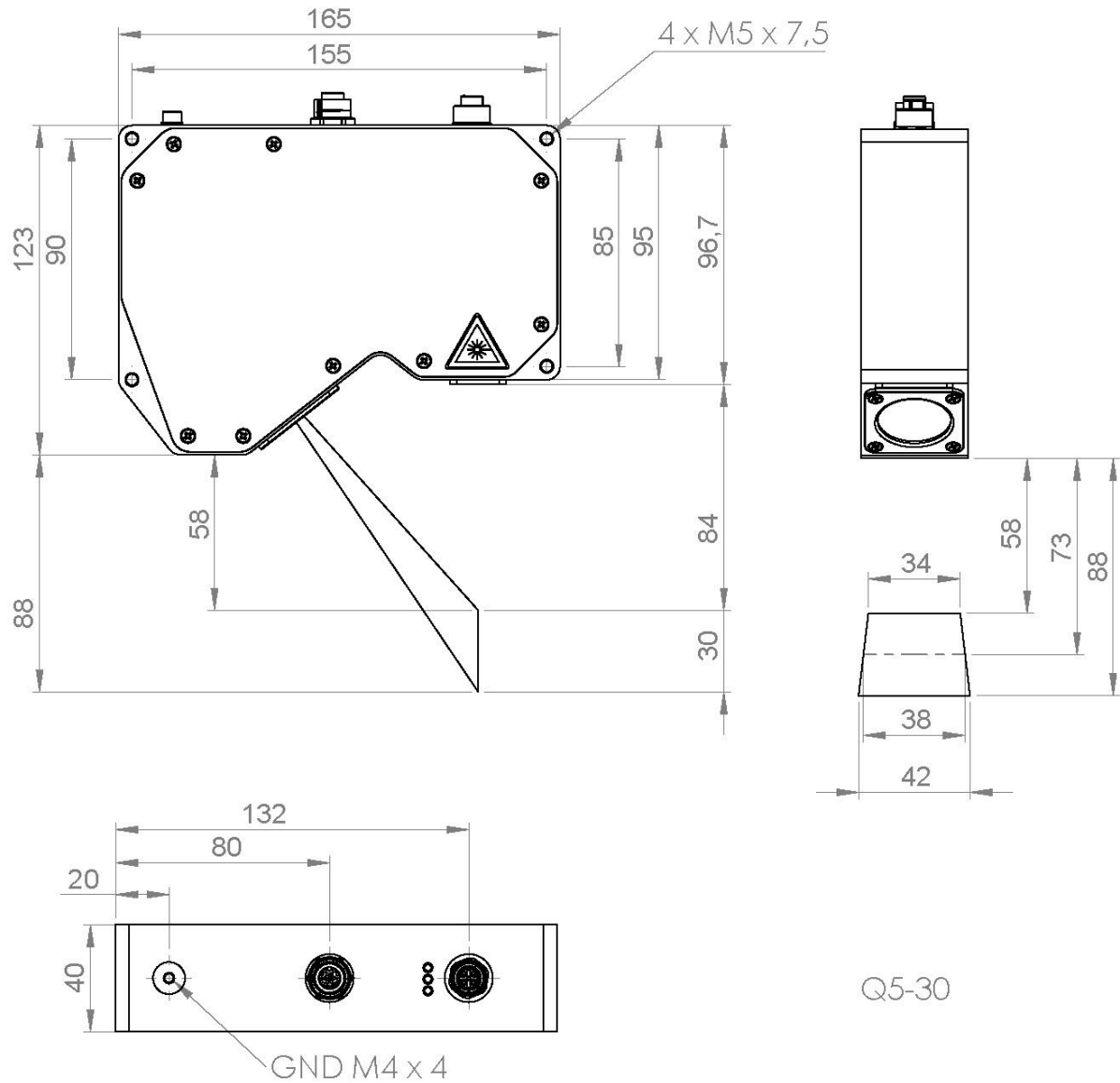
Q5-05



Technical drawing of the Q5-20 antenna showing three views: top, side, and front. The top view shows a rectangular base with rounded corners, a central feed point, and mounting holes. Dimensions include 118mm width, 115.9mm height, and 108mm mounting hole spacing. The side view shows a height of 36mm. The front view shows a width of 118mm and a height of 11.5mm. Callouts indicate "3 x M5 x 7,5" for mounting screws and "GND M4 x 6" for the ground connection.

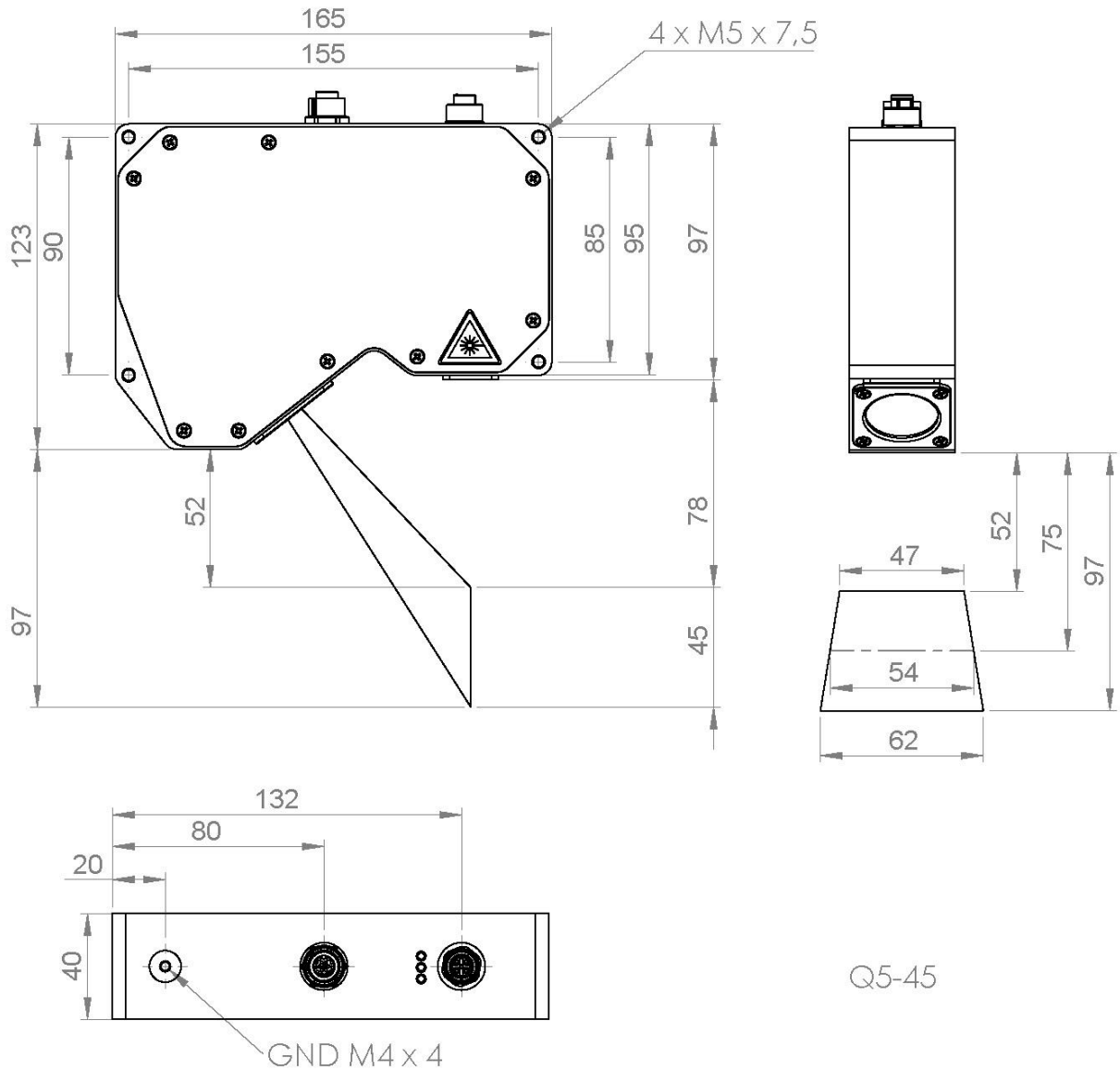
©2022 QuellTech GmbH / The authors will be not responsible for the accuracy of this document and will not be liable or any damages that may be caused by the use of this document. Errors may be present, changes may occur without notice.
This is document is confidential and may not be propagated to any unauthorized party.

Q5-30



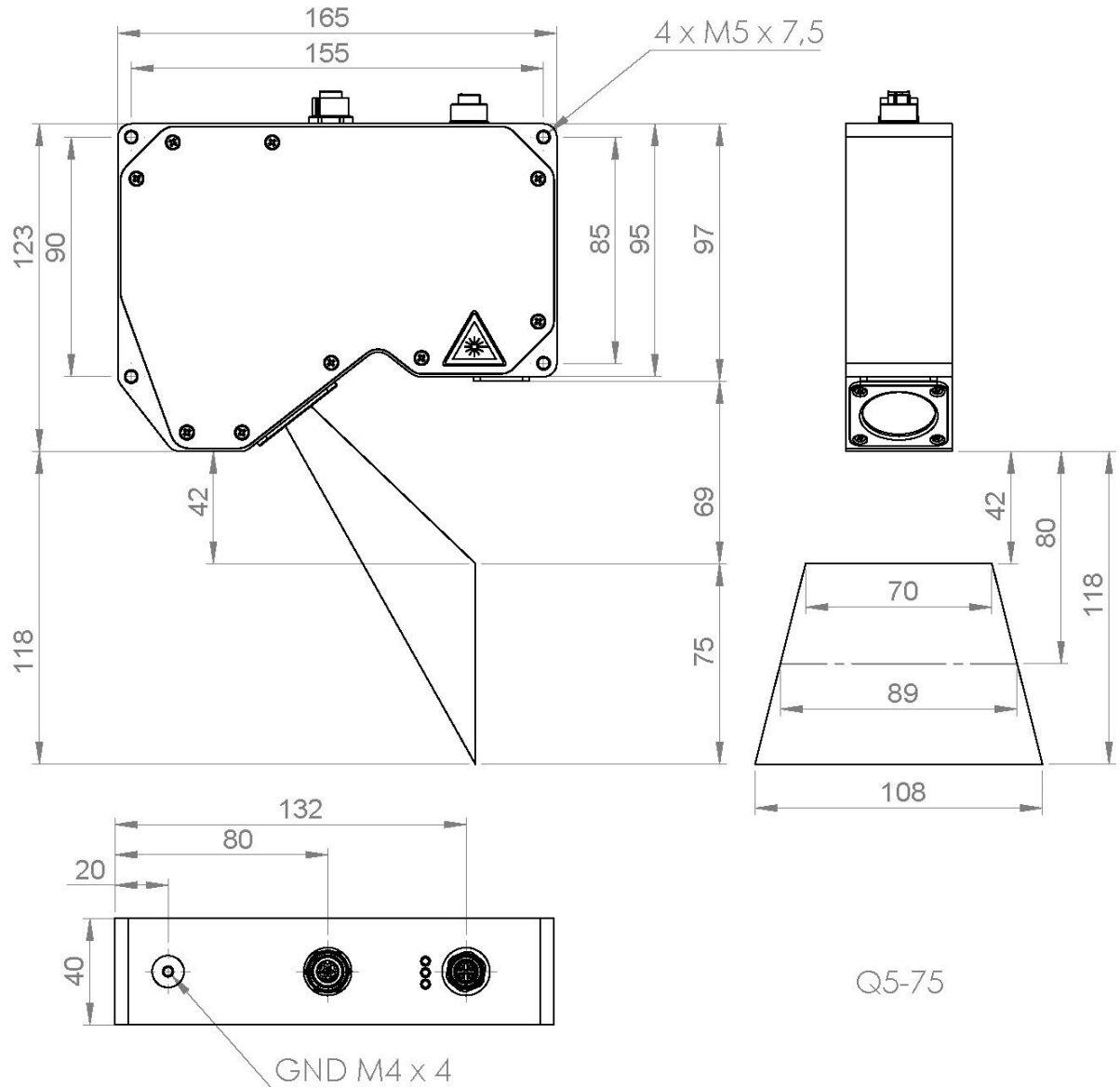
Q5-30

Q5-45



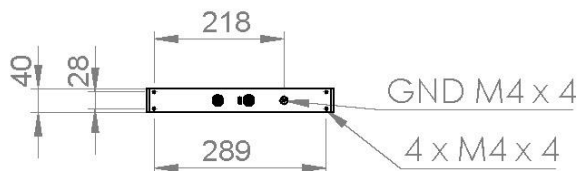
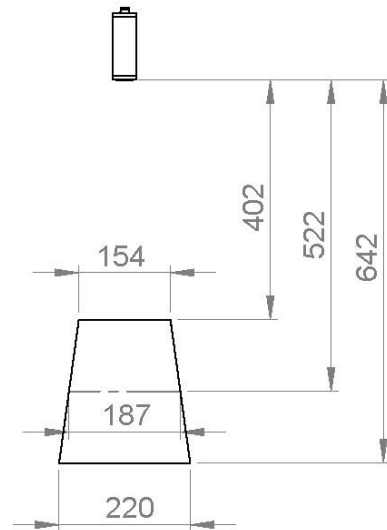
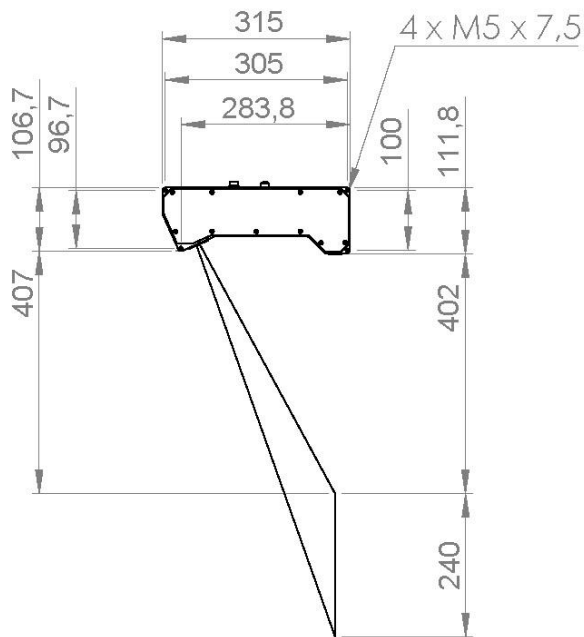
Q5-45

Q5-75



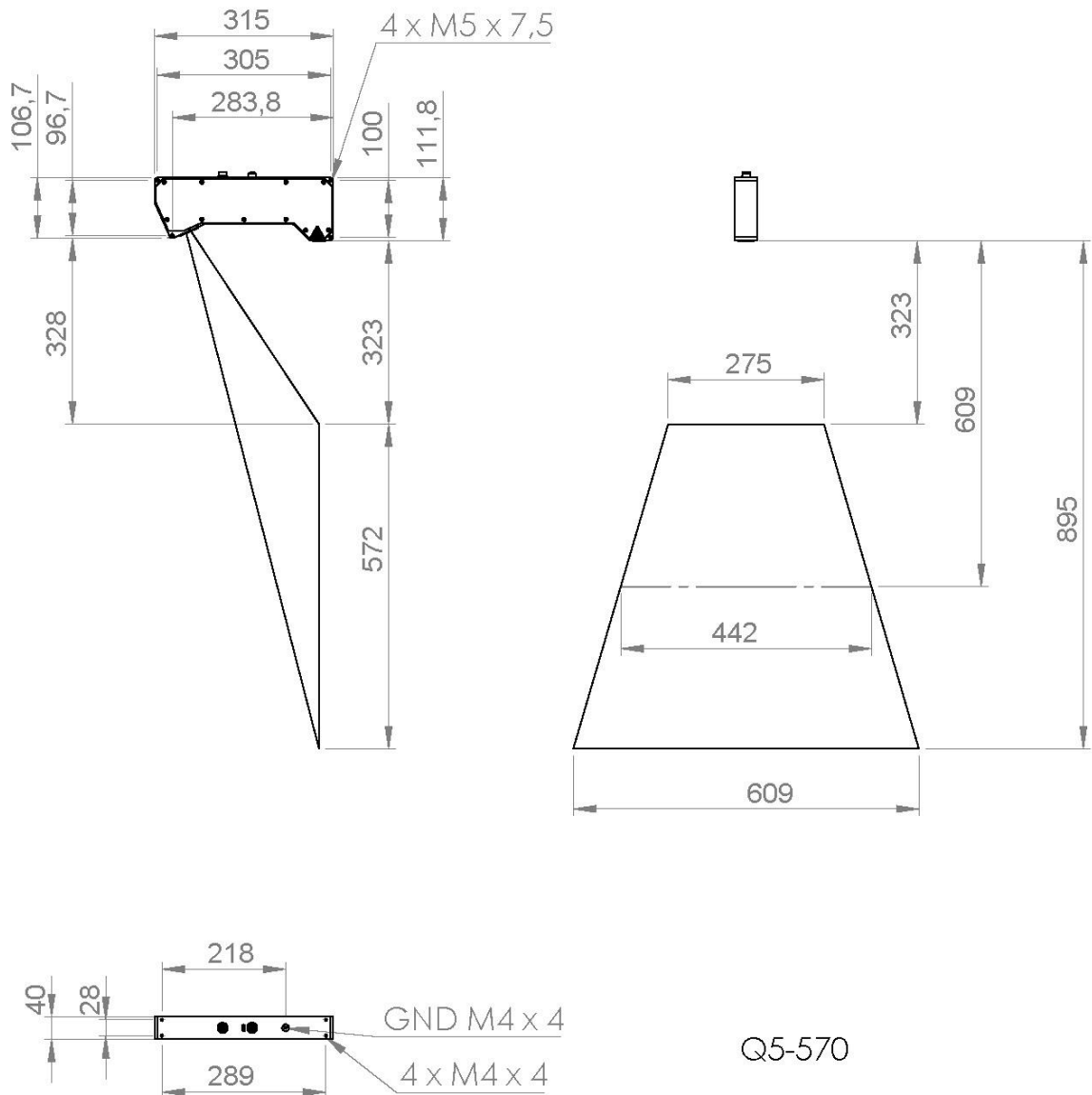
Q5-75

Q5-240



Q5-240

Q5-570



Q5-570

Q5-880

