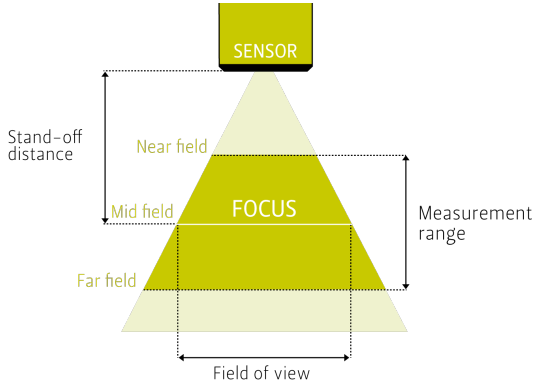
ECCO 95.015G

Typical field of view (near | **mid** | far) [1]	11 mm | **12 mm** | 11 mm
Measurement range [1]	5.6 mm
Typical vertical resolution (Z) [1]	0.42 – 0.54 µm
Typical lateral resolution (Y) [1]	6.0 µm – 6.8 µm
Stand-off distance	17.4 mm (optics add-on), 23.4 mm (housing)
Mounting distance	65 mm
Laser wavelength	450 nm (brilliant blue laser)
Laser class (standard)	3R
Maximum points/ 3D profile	1920
Mounting	Sensor mounted at 21° pitch angle (sensor is shipped with mounting adapter)
Weight	Approx. 775 g (includes mounting adapter)
Z-Repeatability[4.5]	0.15µm
Z-Linearity[2.5]	0.015%
Part number	3.004.191 (laser class 3R)
Typical scan rate [3]	Approx. from 1 kHz up to 10 kHz (with full FOV)
Typical 3D point rate [3]	Approx. from 0.7 up to 15 million points/sec



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Interface	Gigabit Ethernet (1 Gbit/ sec)
Inputs	2 x Inputs, 5 – 24 VDC Quadrature Encoder (AB-Channel, RS-422 Standard)
Outputs	2 x Outputs, 24 VDC (max. 20 mA)
Trigger	START Trigger support on Input 1 – 2 DATA Trigger support on Quadrature Encoder Input (Max. DATA trigger rate: 1 MHz) DATA Trigger support on Input 2 (Max. DATA trigger rate: 10 kHz)
Input voltage | Power	24 VDC, ± 15 % ripple | 8.5 W
Maximum ambient light	10,000 lx
EMC test	as per EN 61 000-6-2, EN 61 000-6-4
Vibration/ Shock test	as per EN 60 086-2-6, -27, -29, -64
Electrical safety	as per EN 61 010-1-3
Protection class	III, as per EN 61 040-3
Enclosure rating	IP65
Air humidity	Maximum 90%, non-condensing
Temperature (operation | storage)	0 – 40° C | -20 – 70° C
Compatible accessories	Power-I/O-Encoder cable: 6.320.0XX Ethernet cable: 6.303.0XX

(1) Typical values can vary up to 5% due to optical tolerances
(2) Z-Linearity calculated as a variation of “bias” (reference value vs. measured value) over the measurement range
(3) Scan rate & point rate are dependent on the configured field of view, measurement range and exposure

time. A ‘scan’ by definition considers maximum points/3D profile i.e. full FOV. The typical scan/point rate range has
been estimated considering an exposure time of 1 µsec, min-max MR and full FOV. The typical scan rate can be further boosted by windowing the FOV
(4) Experimentally assessed by scanning a fixed measurement target 4100 times successively within short time interval. No post-processing filters applied
(5) Measurements performed on a SmartRay standard artifact which is an aluminium flat matt surface painted matte white

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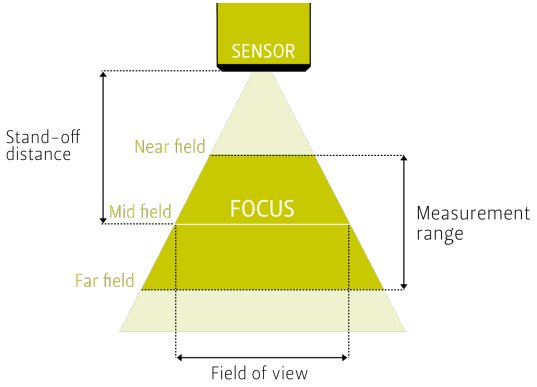

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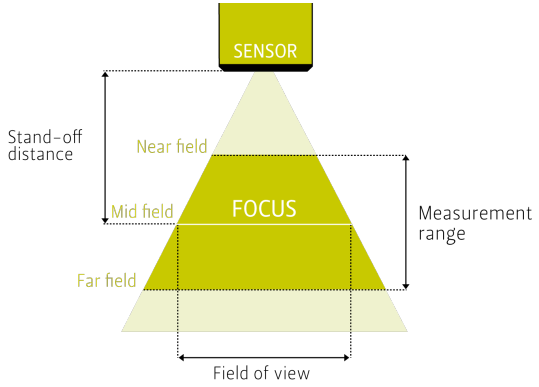

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