CUTTING EDGE 3D SENSORS FOR ACCURATE INSPECTION AND PRECISE MEASUREMENT







EXTRAORDINARY SPEED UP TO 40KHZ



MAXIMUM FLEXIBILITY 4 CONNECTOR OPTIONS



EXCEPTIONAL RESOLUTION 4096 3D POINTS



COMPACT DESIGN
SMALLEST IN ITS CLASS

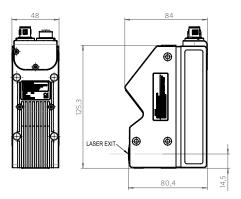


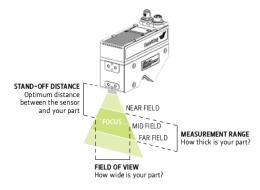
KEY SPECIFICATIONS

Model	ECCO X 25
Field of view (near mid far)	22 25 29 mm
Typical measurement range	20 mm
Stand-off distance	65 mm
Typical vertical resolution	0.9-1.4 µm
Typical lateral resolution	5.0 µm - 7.0µm depending on FOV
Z-linearity	0.005%
Z-repeatability	0.2 µm
Laser wavelength	450 nm (brilliant blue laser)
Part number laser class 3R	1 2 3 4 4 3.004.131 3.104.131 3.204.131 3.304.131
laser class 2 ²	3.002.131 3.102.131 3.202.131 3.302.131
Laser class (standard optional)	2 3R
Maximum points / 3D profile	4096
Weight	742g
Typical scan rate 1	Up to 40 kHz
Typical 3D point rate 1	Up to 163 million points/sec
Interface	Gigabit Ethernet (1 Gbit/sec)
Inputs	2x Inputs (5 – 24 VDC) Quadrature Encoder (AB-Channel, RS-422 standard)
Outputs	2 x Outputs, 24 VDC (max. 20 mA)
Trigger	The following triggers are supported: START Trigger support on Input 1 DATA Trigger support on Quadrature Encoder Input (Max. DATA trigger rate: 1 MHz) DATA Trigger support on Input 2 (Max. DATA trigger rate: 5 kHz)
Input voltage power	24 VDC, ± 15% 10 W
Maximum ambient light	10,000 lx
EMC test	as per EN 61 000-6-2, EN 61 000-6-4, EN 61326-1:2013-07
Electrical safety	as per EN 61 010-1
Protection class	as per EN 61 010-3
Laser safety inputs	24 V DC +/- 15%
Enclosure rating	IP67
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 in 5 m or 10 m

Note: Typical values may vary up to ±5% due to optical and production tolerances

- 1 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.
- 2 Laser class 3R is more intense (6-8 times stronger) compared to laser class 2 which allows to decrease the exposure time by factor 6-8. The laser class 3R however requires specific safety precaution.





FOR MORE INFORMATION PLEASE CONTACT US: