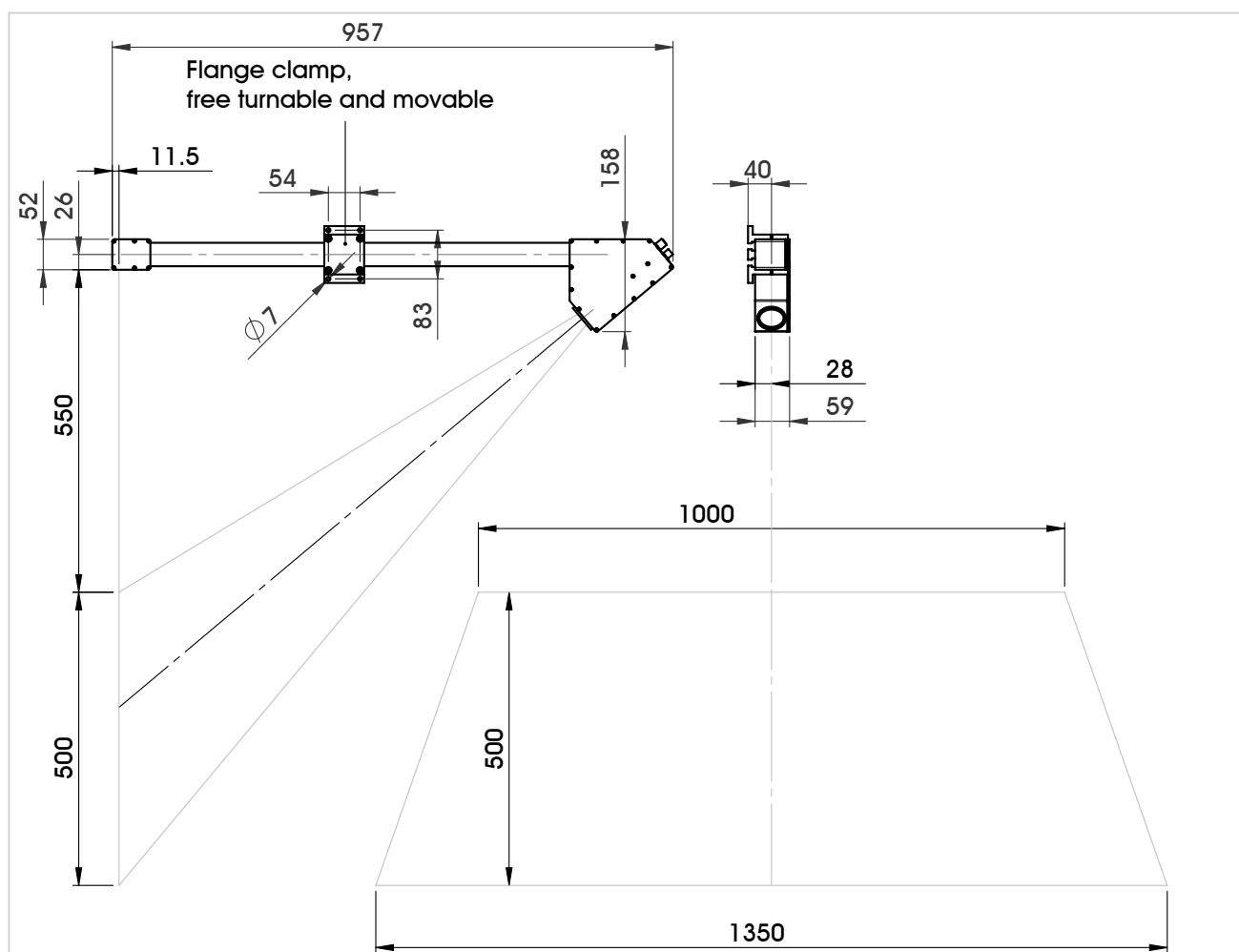


M2-HX 500/1000

Laser Scanner

high-resolution Laser Scanner
for wide measuring ranges

- 1000 Hz measuring frequency
- no additional controller necessary
- Ethernet connection



Error and technical modification reserved

DB-M2-HX-5001000_1-01-E

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MEL
Intelligent Sensors & Measuring Systems

Specifications M2-HX 500/1000

Measuring range Z	500 mm
Range begin Z	550 mm
Begin of scan range X	1000 mm
End of scan range X	1350 mm
Resolution Z *	0.5 mm
Resolution X *	0.8 mm
Laser protection class	3R
Linearity	0.2 % of range
Measuring frequency	1000 Hz
Interfaces	Gigabit Ethernet, RS485, RS422 (Encoder)
Inputs	4 x HIGH = 10 V ... 28,8 V (one reserved)
Outputs	1 x TTL; < 35 mA 2 x B-type; <100 mA in total (reserved)
Light source	Laser, wave length 630 ... 670 nm, red visible
Ambient light	5,000 Lux
Operating time	Laser diode: 50,000 h
Operating temperature	0 °C ... +40 °C
Storage temperature	-20 °C ... +70 °C
Humidity	< 90% RH
Protection class	IP 40
Power supply	24 V ±20%, 1 A
Connections	Power I/O: M12, 8 pins, male Encoder: M12, 8 pins, female Gigabit Ethernet: RJ 45
Measuring surface	white to black, shiny, high mirroring
Weight	2.5 kg

* Measurement on matt white, diffusely reflecting surface

Pin assignment supply cable:

Pin	Signal	Remark	Colour
1	In1	Enable (24 V)	white
2	Power	24 V power supply	brown
3	Out1	Reserved (B-Typ)	green
4	In2	Reset (24 V)	yellow
5	TRA	TRA RS485	grey
6	TRB	TRB RS485	pink
7	GND	Ground	blue
8	Out2	Laser trigger (TTL)	red

Pin assignment Encoder:

Pin	Signal	Remark	Colour
1	In_A+	Phase 1, RS422+	white
2	In_B+	Phase 2, RS422+	brown
3	In_B-	Phase 2, RS422-	green
4	In_A-	Phase 1, RS422-	yellow
5	GND	Ground	grey
6	In3	Reserved (24 V)	pink
7	In4	Monitor (24 V)	blue
8	Out3	Reserved (B-type)	red