

More Precision



ODC 1202 Laser Micrometer

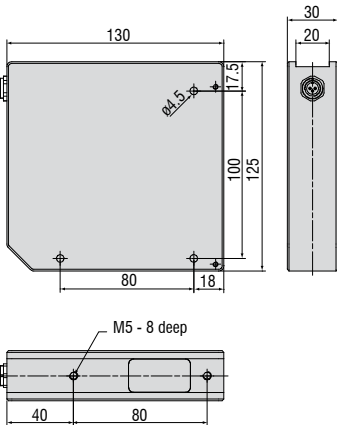
- Laser line sensor, 1mW, class 2 laser product
- Visible laser line (red light 670nm), 100mm light curtain
- Measuring range typ. 98mm
- Resolution typ. 30 μ m
- Working distance up to 2500mm
- Integrated polarisation filter / interference filter
- With integrated controller



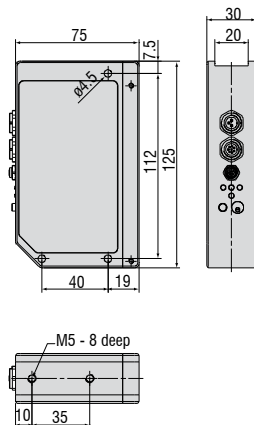
Model	optoCONTROL 1202-75	optoCONTROL 1202-100
Measuring range	typ. 72mm	typ. 98mm
Resolution	typ. 30 μ m	typ. 50 μ m
Independent linearity	$\pm 0.2\%$	$\pm 0.2\%$
Sampling rate	max. 350Hz / 800Hz	max. 250Hz / 600Hz
Max. switching current	100mA, short-circuit proof	
Interface	RS232, parameterisable under Windows	
Laser	Semiconductor laser, 670nm, DC-operation, 1mW max. opt. power, laser class 2 acc. DIN EN 60825. The use of these laser sensors therefore requires no additional protective measures.	
Optical filter	Interference filter, red light filter RG630, polarisation filter	
Housing material	Aluminium, anodized in blue	
Housing dimensions (without connectors)	Transmitter: LxBxH approx. 130x125x30 mm Receiver: LxBxH approx. 75x125x30 mm	Transmitter: LxBxH approx. 170x145x30 mm Receiver: LxBxH approx. 70x145x30 mm
Connector Receiver	8-pin female connector type binder series 712 (SPS/Power) 4-pin female connector type binder series 707 (PC/RS232) 3-pin female connector binder series 712 (connection to the transmitter)	
Connector Transmitter	3-pin female connector type binder 712 (connection to receiver)	
Connection cable	Connection to PC: PC1202-2/PC; connection to SPS: PC1202-2/SPS; connection cable transmitter/receiver: PC1202-2	
Output polarity	Bright-/dark-switching, adjustable under Windows	
Teach button	Teach button at the housing for set point value teaching	
LED- indication	LED red (+): Measured value > upper tolerance threshold LED green: Measured value lies within tolerance window LED red (-): Measured value < lower tolerance threshold LED yellow: multifunction	
EMC	EN 60947-5-2	
Protection class	Electronics: IP 54, optics: IP 67	
Operation temperature	-10°C ... +50°C	
Storage temperature	-20°C ... +85°C	
Output	Analogue: 0 ... +10V	
	Digital (OUT0, OUT1, OUT2): pnp bright-switching/npn dark-switching or pnp dark-switching/npn bright-switching, adjustable under Windows, 100mA, short-circuit proof	
Digital Input (IN0)	Input voltage +Ub/0V with protective circuit	
Power supply	+12 VDC ... +30 VDC	
Sensitivity adjustment	under Windows via PC	
Laser adjustment	adjustable under Windows via PC	
Consumption	typ. 200mA	

ODC 1202 Dimensions and Accessories

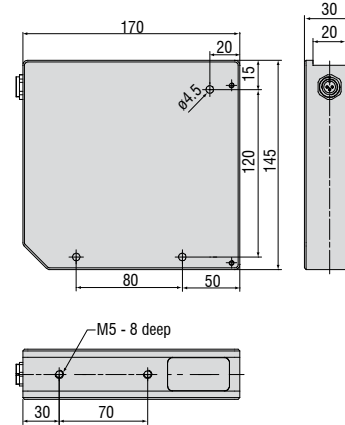
optoCONTROL 1202-75
(Transmitter)



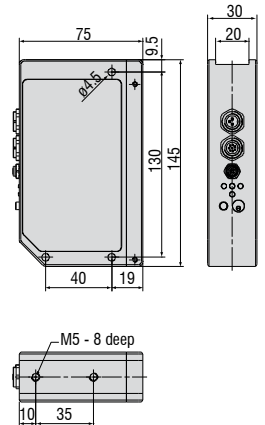
optoCONTROL 1202-75
(Receiver)



optoCONTROL 1202-100
(Transmitter)



optoCONTROL 1202-100
(Receiver)



Connection Pin-Assignment to SPS (8- pole female connector)

Pin:	Color:	Assignment:
1	white	GND (0V)
2	brown	+15...+30VDC
3	green	IN0 (EXT TRIGGER)
4	yellow	IN1 (TEACH/RESET)
5	grey	OUT0 (-)
6	pink	OUT1 (+)
7	blue	OUT2 (OK)
8	red	ANA (0 ... +10V) in case of -4/20: ANA (4 ... 20mA)

Connecting cable: SCA 1202-2

Connection to PC (4- pole female connector)

Pin:	Assignment:
1	n.c.
2	GND (0V)
3	TxD
4	RxD

Connecting cable: SCD 1202-2

Connection, cable, transmitter, receiver (3- pole female connector)

Pin:	Assignment:
1	+5VDC
2	GND (0V)
3	I-CONTROL (0V ... +5V)

Connecting cable: CE 1202-2

Micro-Epsilon

info@micro-epsilon.com
www.micro-epsilon.com

info@micro-epsilon.co.uk
www.micro-epsilon.co.uk

info@micro-epsilon.us
www.micro-epsilon.us

certified DIN EN ISO 9001 : 2000
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