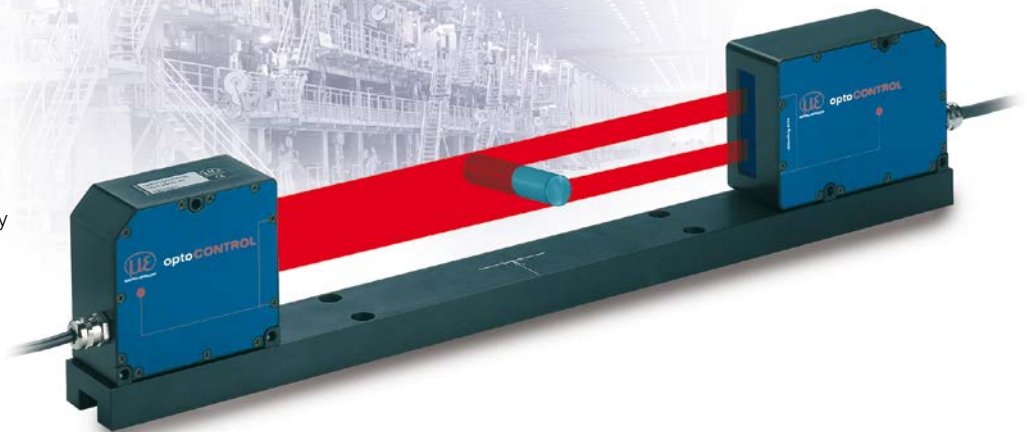


# More Precision



## optoCONTROL 2600-40(209)/2600-40(210) High resolution LED micrometer

- ▶ Maximum resolution and accuracy
- ▶ Outstanding repeatability
- ▶ Measuring rate 2.3kHz for fast processes
- ▶ Insensitive to external light
- ▶ Measurement against glass and transparent plastics
- ▶ Six different measurement programs
- ▶ Measures up to 4 segments simultaneously (e.g. 4 x diameter)



Model	ODC2600-40	ODC2600-40(209)	ODC2600-40(210)
Measuring range		40mm	
Smallest diameter or gap (detectable target)		0.3mm	
Distance light source - CCD camera (free space)	300 (±50)mm	400 (±50)mm	400 (±50)mm
Distance (target to receiver)	150 (±5)mm	200 (±5)mm	200 (±5)mm
Linearity (3 s) <sup>1)</sup>		< ±3μm	
Resolution <sup>2)</sup>		0.1μm	
Repeatability <sup>1)3)</sup>	±1μm	±1.5μm	±1.5μm
Measuring rate		2.3kHz	
Light source		red LED	
Analogue output (voltage)		0 ... 10VDC, range ±10VDC, selectable	
Digital output		RS232 (115.2kBaud) or RS422 (691.2kBaud)	
Switching output		error, 4x limit, synchronisation	
Input		zero; reset; trigger; synchronisation; light on/off (programmable)	
Shock		acc. IEC 60068-2-29	
Vibration		acc. IEC 60068-2-6	
Operation temperature		0 to 50°C	
Storage temperature		-20 to 70°C	
Power supply		24VDC (±15%), <1A	
Cable length (controller-light source/controller-CCD camera)		standard: 2m	standard: 2m, cable outlet light source and receiver 90°
Protection class	receiver / light source	IP 64	
	controller	IP 40	
Measurement programs		edge light-dark; edge dark-light; diameter; gap; segment; multi-segments; 4 user-programs	
Display		LC-display (value, maximum, minimum, peak-to-peak); display in mm or inch, selectable; menu languages in German / English, selectable; 3x LED (power on, light on, error)	

All specifications are measured at a constant temperature of 20°C after a warm-up time of 30 minutes.

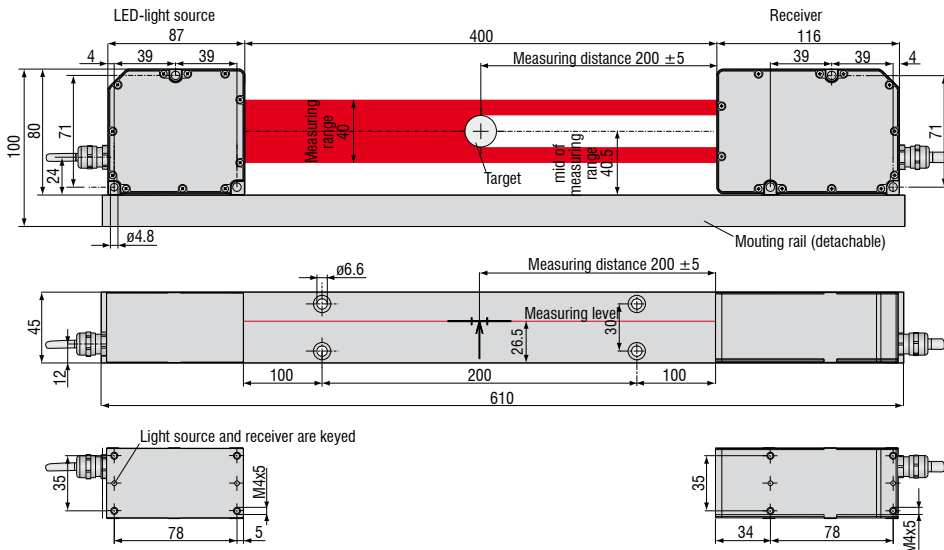
<sup>1)</sup> (edge measurement, no averaging at the target, operating distance 150 ±5mm) < ±3μm

<sup>2)</sup> Display resolution (resolution digital output 0.6μm)

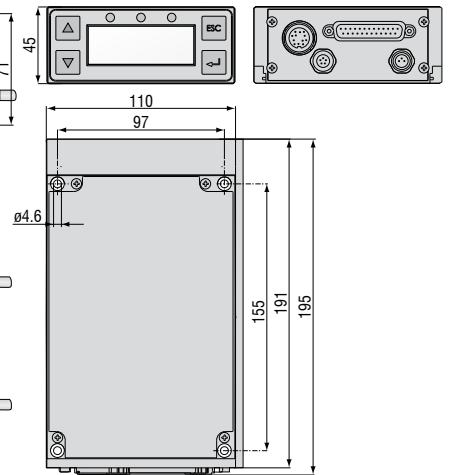
<sup>3)</sup> Measured at static noise for 3 min.

# optoCONTROL 2600-40(209)/2600-40(210) Dimensions

optoCONTROL 2600-40(209)



Controller



optoCONTROL 2600-40(210)

