



# More Precision

opto**CONTROL** CLS1000 // Fiber optic sensor for industrial applications



# Controller with optocoupler optoCONTROL CLS1000-OC



Optocoupler output for potential-free switching

Galvanic isolation of the output circuit

Model	CLS1000-OC	CLS1000-OC-T	
Article number	10085113	10085114	
Operating range	max. 2000 mm (depending on transmission sensor)		
Detection range	max. 1200 mm (depending on reflex sensor)		
Response time	100 $\mu$ s		
Switching frequency	2.5 kHz (depending on pulse/pause ratio)		
Temperature stability	$\leq 0.1\%$ FSO / K		
Light source	infrared LED 870 nm		
Permissible ambient light	50,000 lx		
Supply voltage <sup>1)</sup>	12 ... 30 VDC		
Max. current consumption	50 mA		
Switching output	Optocoupler (OC)		
Switching	light/dark switching (switchable)		
Signal input	-	Trigger In	
Connection	Optical	FA socket M18x1 for screwable optical fiber (length 0.3 m ... 15 m, min. bending radius 18 mm)	
	Electrical	4-pin M12 socket for power supply and signals (connection cable see accessories)	5-pin socket M12 for power supply and signals (connection cable see accessories)
Mounting	DIN rail, mounting rail (see accessories), mounting holes		
Temperature range	Storage	-10 ... +70°C	
	Operation	-5 ... +55°C	
Shock (DIN EN 60068-2-27)	20 g / 11 ms in 3 axes, two directions and 1000 shocks each		
Vibration (DIN EN 60068-2-6)	15 g / 10 ... 1000 Hz in 3 axes, 10 cycles each		
Protection class (DIN EN 60529)	IP67		
Material	Plastic housing (polycarbonate)		
Weight	200 g		
Compatibility	with all CFS sensors (FAR, FAD, FAZ and FAS)		
Control and indicator elements	Parameterization/operation via membrane keypad and LCD display on controller; LED for power on		
Special features	up to 7 teach-in modes; adjustable switching output functions on-delayed and off-delayed as well as pulse output; adjustable hysteresis 2 ... 25%	up to 7 teach-in modes; adjustable switching output functions on-delay and off-delay as well as pulse output; adjustable hysteresis 2 ... 25%; variety of trigger types	

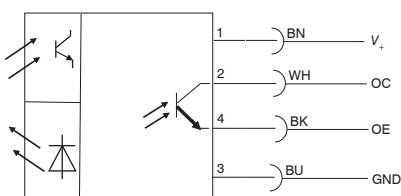
FSO = Full Scale Output

The specified data apply for a consistent room temperature of 22 °C, sensor is continuously in operation, open signal outputs.

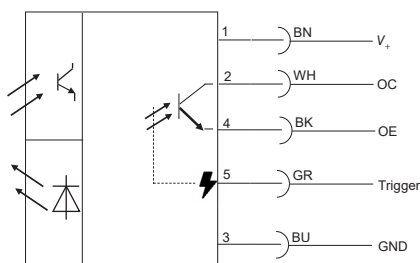
<sup>1)</sup> Residual ripple  $\leq 10\%$

## Connection diagram

CLS1000-OC



CLS1000-OC-T



## Accessories

### optoCONTROL CLS1000

Art. no.	Model	Description
11245551	PC1000-2-T	Signal / supply cable, 2 m, 5-pin unshielded
11245300	PC1000-5-T	Signal / supply cable, 5 m, 5-pin unshielded
11245301	PC1000-10-T	Signal / supply cable, 10 m, 5-pin unshielded
11245302	PC1000-2	Signal / supply cable, 2 m, 4-pin unshielded
11245303	PC1000-5	Signal / supply cable, 5 m, 4-pin unshielded
11245304	PC1000-10	Signal / supply cable, 10 m, 4-pole unshielded
11245305	PC1000/90-2	Signal / supply cable, 2 m, 4-pole unshielded, 90° outlet
11245306	PC1000/90-5	Signal / supply cable, 5 m, 4-pin unshielded, 90° outlet
2420096	PS2031	Plug-in power supply universal 100 ... 240 V / 24 V / 1 A
2420062	PS2020	PS2020 Power supply unit 24 V
10811916		Pressure-tight feedthrough for vacuum