



More Precision

optoCONTROL CLS1000 // Fiber optic sensor for industrial applications



Controller with optocoupler opto**CONTROL** 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 µs | |
| Switching frequency | 2.5 kHz (depending on pulse/pause ratio) | |
| Temperature stability | ≤ 0.1 % FSO / K | |
| Light source | infrared LED 870 nm | |
| Permissible ambient light | 50,000 lx | |
| Supply voltage ¹⁾ | 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) |
| Mounting | | 5-pin socket M12 for power supply and signals (connection cable see accessories) |
| 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 |

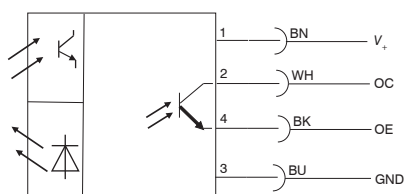
FSO = Full Scale Output

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

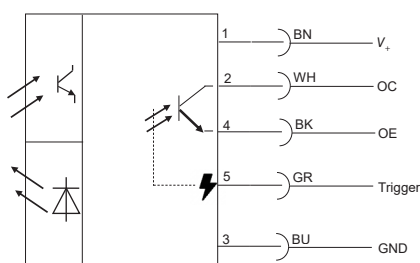
¹⁾ Residual ripple ≤ 10%

Connection diagram

CLS1000-OC



CLS1000-OC-T



Accessories

opto**CONTROL** 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 | |