MICRO-EPSILON

More Precision

optoCONTROL CLS1000 // Fiber optic sensor for industrial applications

Controller with voltage output
optoCONTROL CLS1000-AU

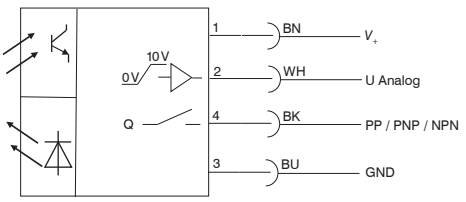
- Freely scalable analog output
  Voltage from 0 ... 10 V
- Analog output as intensity output
- Analog output and switching output

Model		CLS1000-AU-NPN	CLS1000-AU-PNP	CLS1000-AU-PP	CLS1000-AU-NPN-T	CLS1000-AU-PNP-T	CLS1000-AU-PP-T
Article number		10085115	10085116	10085117	10085118	10085119	10085120
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)					
Frequency response (-3dB)		10 kHz					
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					
Analog output		0 ... 10 V					
Switching output		NPN	PNP	PP	NPN	PNP	PP
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, DIN rail mounting (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 9 teach-in modes; adjustable switching output functions on-delay and off-delay as well as pulse output adjustable hysteresis 2 … 25%			up to 9 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		

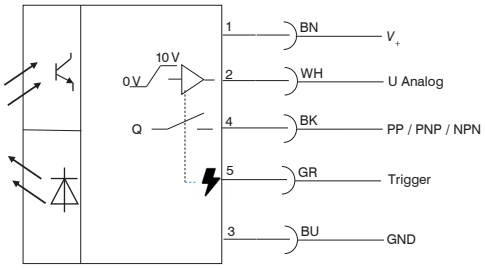
FSO = Full Scale Output
The specified data apply for a consistent room temperature of 22 °C, sensor is continuously in operation, open signal outputs.
[1] Residual ripple ≤ 10%

Connection diagram

CLS1000-AU-xx



CLS1000-AU-xx-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	

Modifications reserved / Y9761777-A0512015LDI

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