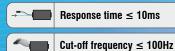


More Precision.



optoCONTROL CLS-K-UV

Fibre optic sensor for glass detection



Analog (

Analogue output 0.5 - 5VDC



For glass/plexiglass detection

Features:

Scanning distance 1-20mm
In transmitted light* 1-100mm
Supply 12-30VDC
Pole protected, short-circuit protected

- Switching output: NPN, PNP (depending on the version/optocoupler)
- Hysteresis adjustable
- Drop-out delay adjustable 2-200ms
- Sensitivity adjustable
- Light and dark switching
- Wavelength typically 290nm
- * Depending on the fibre optic and the surface

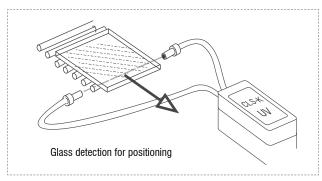
Applications:

- Glass-plate detection passing through, starting at 0.1mm thickness
- Glass-plate positioning, starting at precisely 0.1mm
- Stop position recognition for glass plates during production
- For glass, plexiglass and CDs (not for films)
- Inspection of coatings

Benefits:

- Modular via fibre optic connection
- Compact design
- Analogue output
- Reproducibility starting from 0.1mm
- Use in tight spaces
- Customer-specific fibre optics permeable for UV light

Application example



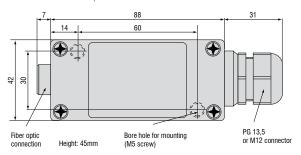
Type CLS-K-UV					
Electrical data	Operating voltage UB	12-30VDC			
	Residual ripple	≤ 10%			
	Current consumption	~ 70mA typ.			
	Switching output	PNP, NPN (depending on the variant)			
	Switching processes	light and dark switching			
	Outputsstrom	≤ 200mA			
Output	Switching voltage	≤ 30V (max. 36V)			
	Cut-off frequency	≤ 100Hz (-3dB)			
	Response time	≥ 10ms			
	Drop-out delay	2-200ms (adjustable)			
	Switching delay	≤ 200ms			
		5-50% (adjustable)			
,	Protection	Pole protected, short-circuit protected			
Analogue output	Voltage	0.5 - 5VDC (Load resistance $R_L \ge 2k\Omega$)			
Light source	LED	UV , wavelength typ. 290nm			
Light Source	Modulation frequency	typ. 2.8kHz			
	Permissible operating temperature 0 to +50°C	0 to +50°C			
	Permissible storage temperature	-25 to +70°C			
Environmental influences	Permissible rel. humidity	90% (non-condensing)			
	Life expectancy typ ≥ 5000 hours	typ ≥ 5000 hours			
	Protection class	IP 65 (with mounted fibre optic)			
Mechanical tasks	Weight	approx. 215g/135g			
	Material	Macrolon 8030/UL54V1, cover transparent			
	Connection (depending on the variant)	M12 connector, 5 pin or connection 2m			

Order code								
Тур	Type of connection	PNP	NPN	Analogue	Art. No.			
CLS-K-121/UV PNP	Cable*	X	†	X	10064149			
CLS-K-122/UV PNP	Connector	X	†	X	10064153			
CLS-K-141/UV NPN	Cable*		X	X	10064156			
CLS-K-142/UV NPN	Connector		X	X	10064158			
Accessories					Art. No.			
Article	Description	† 						
Connection for connector version	5 pin with connector (cable box) PUR, 2m							
Fibre optic (FASOP)	See page 10 ff. (e.g. FAD-M-A2.0-2,0-1200-UV)							

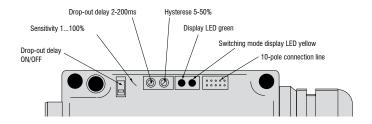
^{*}Cable design: 6 wired, 2m, PVC

Dimensions:

Dimensions in mm, not to scale

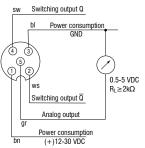


Control and display interface:

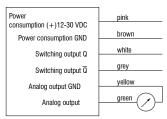


Connections:

Connector version



Cable version



High performance sensors made by Micro-Epsilon



Sensors and systems for displacement and position



Measurement and inspection systems for quality assurance



Sensors and measurement devices for non-contact temperature measurement



Optical micrometers, fibre optic sensors and fibre optics



2D/3D profile sensors (laser scanner)



Colour recognition sensors, LED analyzers and colour online spectrometer





SCIGATE AUTOMATION (S) PTE LTD

No.1 Bukit Batok Street 22 #01-01 Singapore 659592 Tel: (65) 6561 0488 Fax: (65) 6562 0588

Email: sales@scigate.com.sg

Web: www.scigate.com.sg

Business Hours: Monday - Friday 8.30am - 6.15pm

