FEATURES

- Solid state technology, no moving parts
- · Miniature size, easy to install
- Basic, TTL compatible or transistor output versions
- 10, 250 or 500 mA output current
- Polysulphone housings
- · High media compatibility
- · Fast response, electrically robust



Tip and housing: Polysulphone

SPECIFICATIONS

Maximum ratings

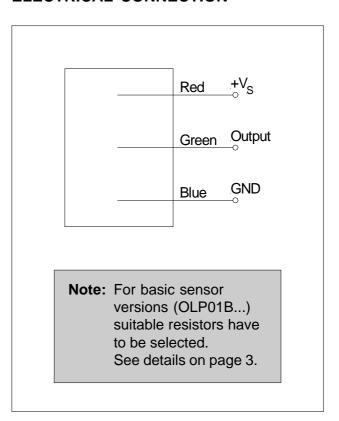
OLP...F

all others

Protection class

Supply voltage	
OLP01	512 V
OLP25X	516 V
OLP25U	1028 V
OLP50	1040 V
Supply current	
OLP01, OLP25	15 mA
OLP50	25 mA
Output current	
OLP01*	10 mA
OLP25	250 mA
OLP50	500 mA
Operating temperature range	
OLP01, OLP50	-25 to 80°C
OLP25	-40 to 125°C
Pressure range	

ELECTRICAL CONNECTION



^{* 10} mA sink current, source current depends on V_s and R_L

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20 bar

7 bar

IP 67



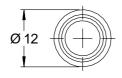
PERFORMANCE CHARACTERISTICS

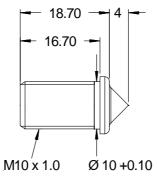
Characteristics	Min.	Тур.	Max.	Unit		
Repeatability			±1	mm		
Hysteresis (depending on liquid)			1			
Response time rising liquid			50	μs		
Response time falling liquid (ethanol)			1	S		

OUTLINE DRAWING

M10 thread

(Housing type OLP...F...)





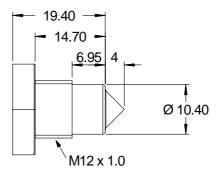
dimensions in mm

mass: 5 g

M12 thread short

(Housing type OLP...K...)



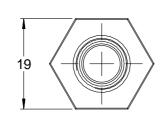


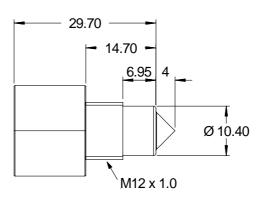
dimensions in mm

mass: 6 g

(Housing type OLP...L...)

M12 thread long





dimensions in mm

mass: 10 g

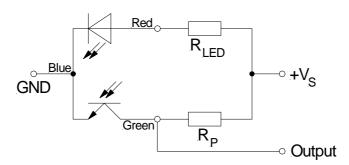
Note: All OLP... devices are supplied with lead wires. The wire lengths are 200 mm -0, +30 mm measured from the back of the polysulphone housing.

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ELECTRICAL CONNECTION (cont.)

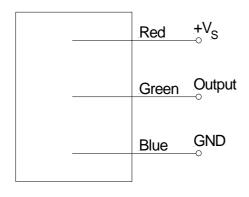
Basic



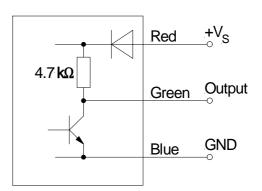
Note: Customer has to select suitable resistors for chosen supply voltage. Pull-up resistor $R_{\rm p}$ could be e.g. 10 $k\Omega$ depending on desired output. Forward voltage of LED is 1.3 V and LED current should be 10 mA (depending on application liquid). $R_{\rm LED}$ can be calculated as follows (e.g. for $V_{\rm S}$ =12 V):

$$R_{LED} = \frac{(V_S - 1.3) \ V}{10 \ mA} = \frac{12 - 1.3}{0.01} = 1070 \ \Omega \approx 1.1 \ k\Omega$$

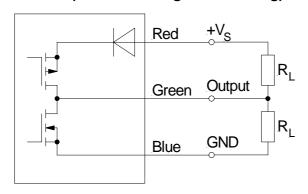
TTL compatible (high in air)



TTL compatible (low in air)



Push-Pull (current sinking and sourcing)



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ORDERING INFORMATION

Basic and TTL compatible output types

Series				Output				Hausing type	e Termination	
			Current	Туре	Function		Housing type			
Options	OLP	01B:	10 mA	basic*	0:	Low in air	F:	M10 thread	3:	3 wire
		01T:	10 mA	TTL compatible	1:	High in air	K:	M12 thread short	4:	4 wire*
				* Low in air only				on request, MOQ may apply		
Example:	OLP	01T			0		F		3	

Transistor output types

6	Carias		Output					Haveing tops		Termination	
	Series		Current	Туре		Function		Housing type	le	Terrimation	
Options	OLP	25X:		Push-Pull (V _s = 516 V)	0:	Low in air	L:	M12 thread long	3:	3 wire	
		25U:		Push-Pull (V _s = 1028 V)	1:	High in air			4:	4 wire*	
		50U:	500 mA	Push-Pull							
							* on request, MOQ may apply				
Example:	OLP	50U			0		L		3		

Accessories (please order separately):

- Nuts, available in Plastic, Nickel Plated Brass or Stainless Steel
- Washers, available in VAMAC (for high temperature) and Nitrile (for standard temperature)

Note: Custom specific options are widely available!

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