

OLM Series

High performance optical liquid level switches

FEATURES

- Solid state technology, no moving parts
- TTL compatible or transistor output
- 10 mA or 800 mA output current
- Stainless steel housing
- High media compatibility
- Fast response, electrically robust

WETTED MATERIALS

Tip: Polysulphone
Housing: Stainless steel 304



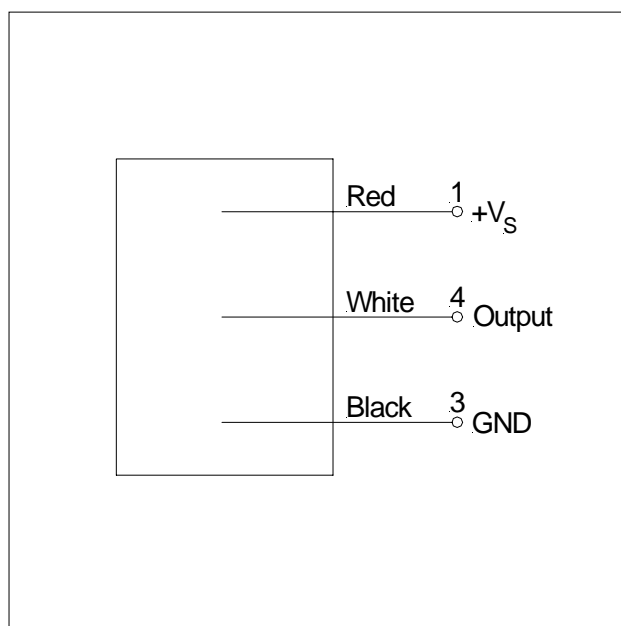
SPECIFICATIONS

Maximum ratings

Supply voltage	
OLM01T...	5...12 V
OLM80U...	10...45 V
Supply current	
OLM01T...	15 mA
OLM80U...	25 mA
Output current	
OLM01T... *	10 mA
OLM80U...	800 mA
Operating temperature range	
OLM...2...	-25 to 80°C
OLM...4...	-40 to 125°C
Pressure range	25 bar
Protection class	up to IP 68

* 10 mA sink current, source current depends on V_S and R_L

ELECTRICAL CONNECTION



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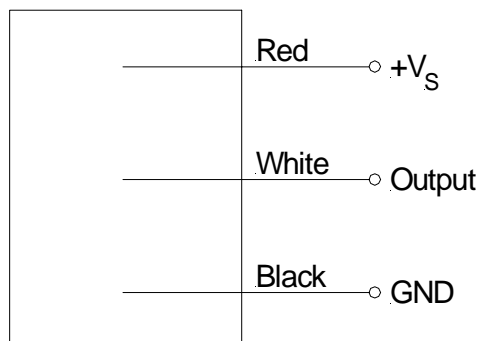
PERFORMANCE CHARACTERISTICS

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

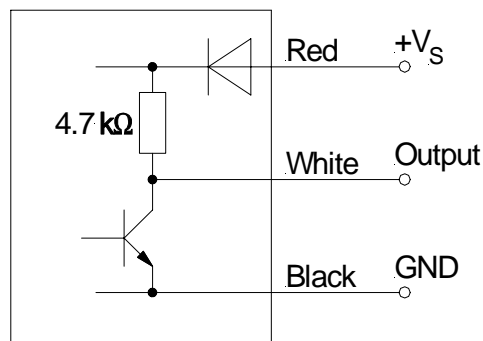
ELECTRICAL CONNECTION (cont.)

Assignment	Electrical Termination	
	M12 x 1 (pin)	Cable, 3 m (lead colour)
$+V_S$	1	Red
N/C	2	-
GND	3	Black
Output	4	White

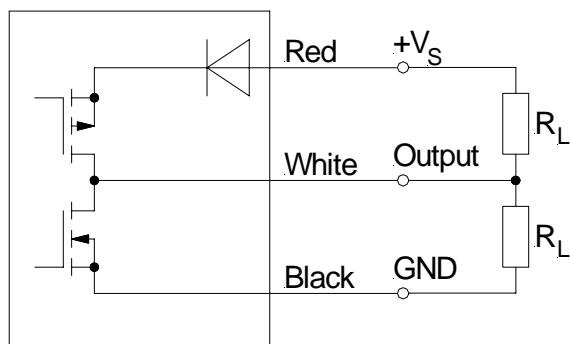
TTL compatible (high in air)



TTL compatible (low in air)



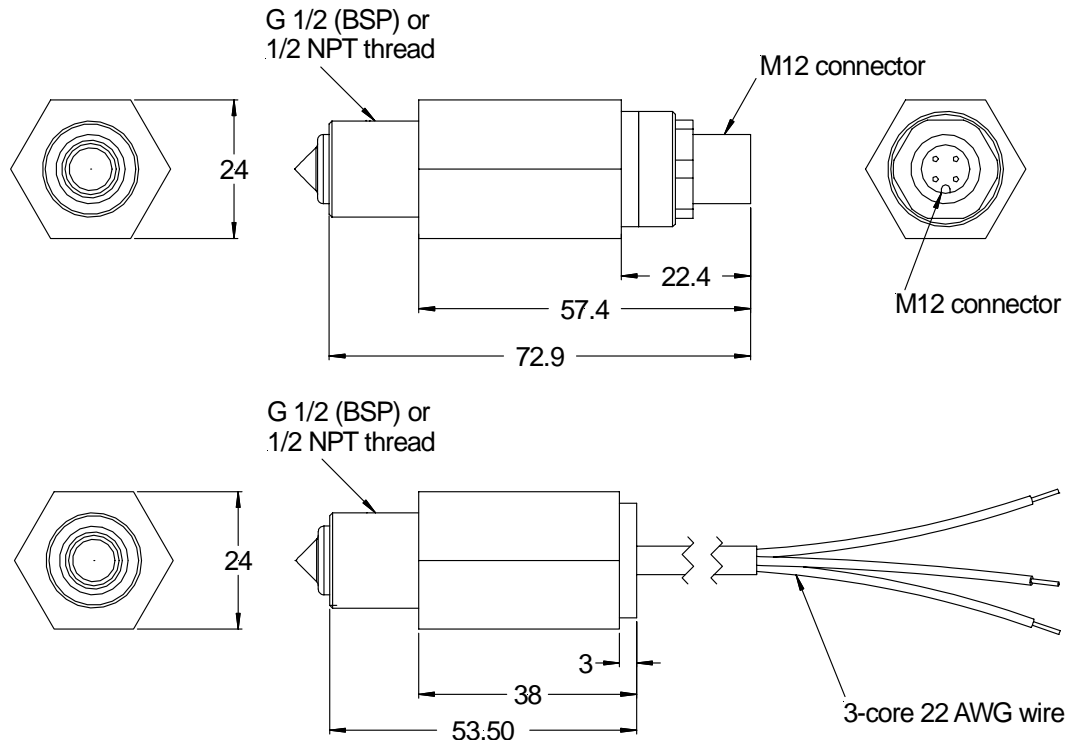
Push-Pull (current sinking and sourcing)



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OUTLINE DRAWING



mass: approx. 115 g

dimensions in mm

Note: Do not mount the sensor with prism pointing downwards.
The prism should be at least 10 mm away from any infrared-reflecting surface.

ORDERING INFORMATION

Series		Output					Tip material		Housing type		Temperature		Termination	
Options	OLM	01T	Current	Type	Function									
			10 mA	TTL compatible	0	Low in air								
			80U	800 mA	Push-Pull	1	High in air							
						P	Polysul- phone	S	G 1/2 (BSP)	2	-25...80 °C	D	M12 x 1 (IP67)	
								T	1/2 NPT	4*	-40...125 °C	M	Cable, 3m (IP67)	
* not available for ...01T0... versions														
Example:	OLM	80U				0	P	S		2		D		

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