

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



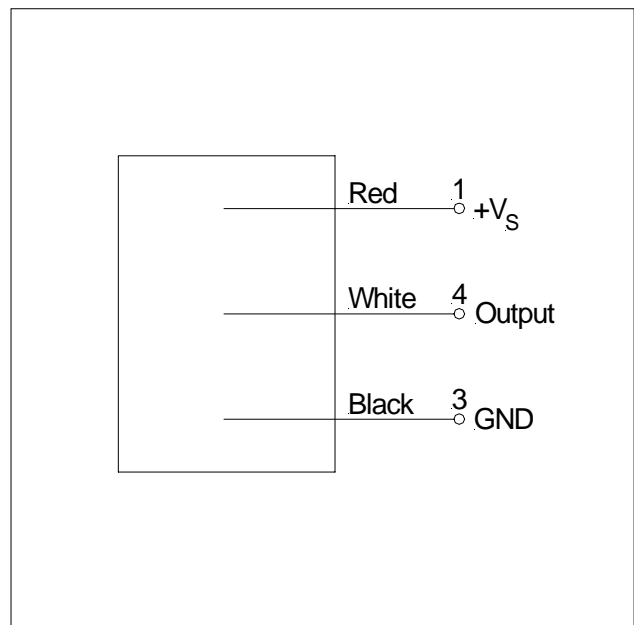
SPECIFICATIONS

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



OLM Series

High performance optical liquid level switches

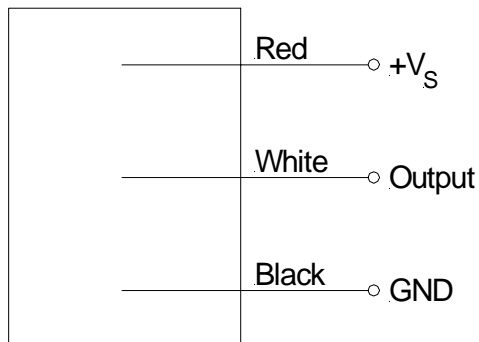
PERFORMANCE CHARACTERISTICS

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

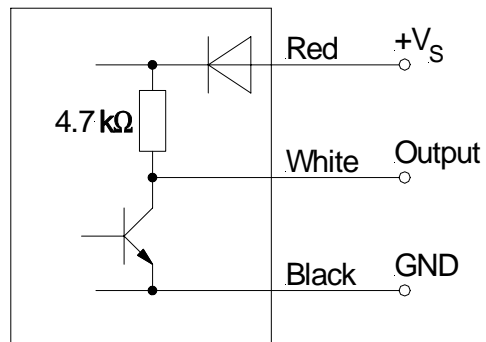
ELECTRICAL CONNECTION (cont.)

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

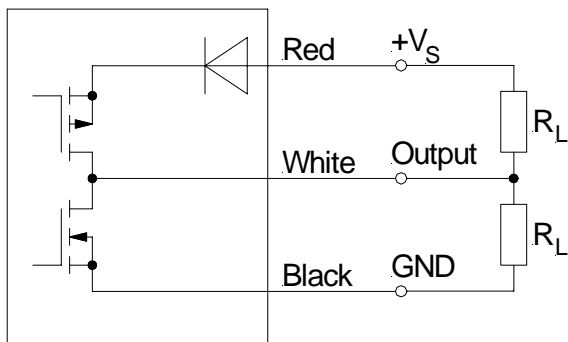
TTL compatible (high in air)



TTL compatible (low in air)



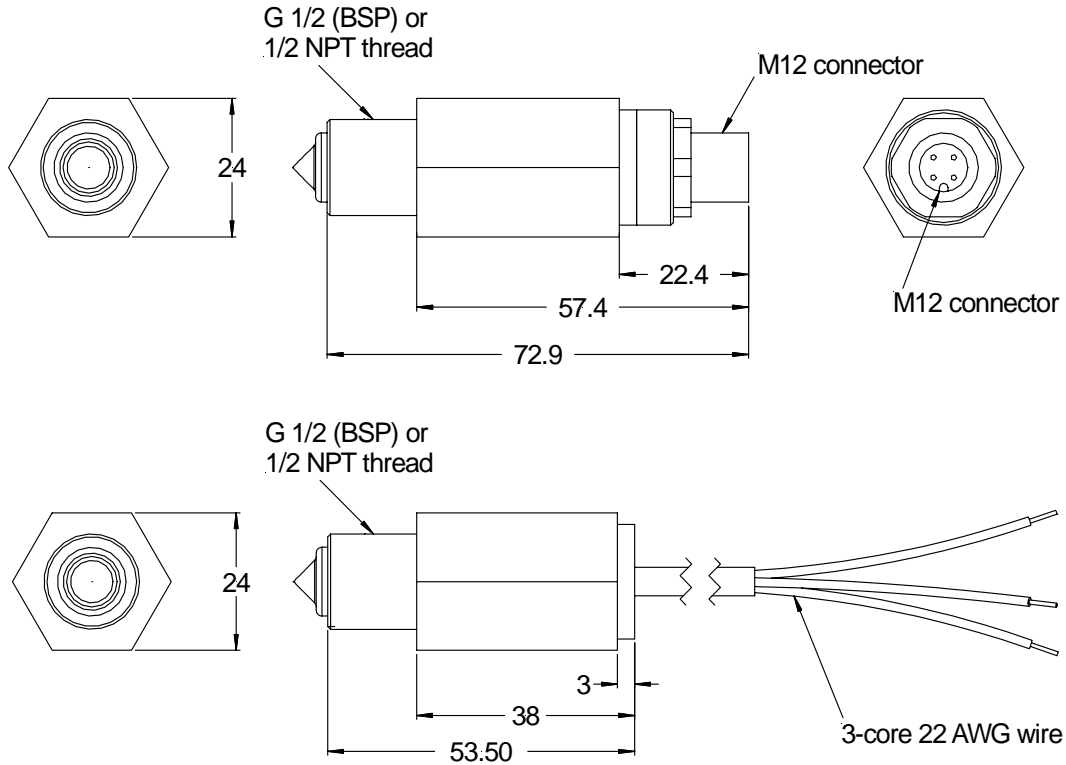
Push-Pull (current sinking and sourcing)



OLM Series

High performance optical liquid level switches

OUTLINE DRAWING



mass: approx. 115 g

dimensions in mm

ORDERING INFORMATION

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

Note: Custom specific options are widely available!
Please contact your nearest Sensortechincs sales office for further information.

Sensortechincs reserves the right to make changes to any products herein. Sensortechincs does not assume any liability arising out of the application or use of any product or circuit described herein, neither does it convey any license under its patent rights nor the rights of others.