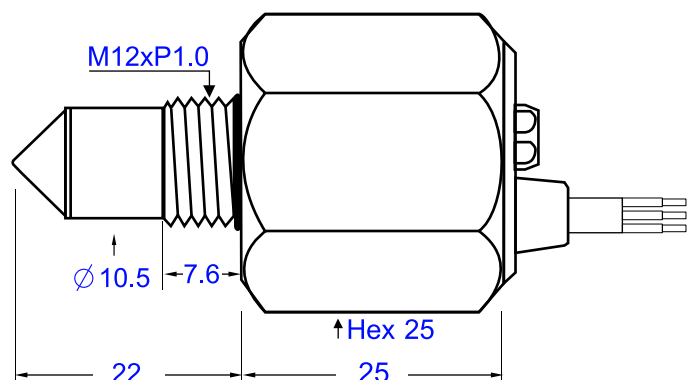


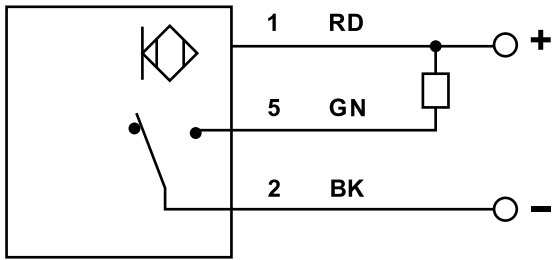
Model No.	LOP-7101
Process Connection Fitting	3/8"G BSP
Cone / Housing Material	Polysulphone (PSU)
Ambient IR Limit (940nm)	$\lambda_p=940$ nm, (10mW/cm <sup>2</sup> in operation)
Rated Operational Voltage	10~28 Vdc(with polarity reverse protection)
Electronic Protection	Polarity Reversal/Short Circuit
Power Consumption	15 mA
Output Indication	2 LEDs ( Red / Green ) , Red LED Indication for output ON
Output Switch Type	PNP (O.C.) : 100mA Max. (with current limiter)
	NPN (O.C.) : 100mA Max. (with current limiter)
	Relay : 0.6A/125VAC, 2A/30 VDC, SPDT
	TTL/CMOS Compatible, TTL (H.L.) / TTL(L.L.)
Switching Function	Normally open (Close in medium)
	Normally close (Open in medium)
Maximum Pressure	<10 Kg/cm <sup>2</sup>
Work Temperature	-10°C~+105°C
Ambient Temperature	-25.....+ 70 °C
Repeatability	± 1 mm
Response Time	2 ms
Switching-on delay time	0 Sec.(Default) , 5 sec. (Option)
Installation Torque	50 Kgf-cm
Ingress Protection	IP65
Cable Specification	$\phi$ 5 x 3C PVC cable 1m



Model No.	LOP-0101
Process Connection Fitting	M12xP1.0
Cone / Housing Material	Polysulphone (PSU)
Ambient IR Limit (940nm)	$\lambda_p=940 \text{ nm}$ , (10mW/cm <sup>2</sup> in operation)
Rated Operational Voltage	10~28 Vdc(with polarity reverse protection)
Electronic Protection	Polarity Reversal/Short Circuit
Power Consumption	15 mA
Output Indication	2 LEDs ( Red / Green ) , Red LED Indication for output ON
Output Switch Type	PNP (O.C.) : 100mA Max. (with current limiter)
	NPN (O.C.) : 100mA Max. (with current limiter)
	Relay : 0.6A/125VAC, 2A/30 VDC, SPDT
	TTL/CMOS Compatible, TTL (H.L.) / TTL(L.L.)
Switching Function	Normally open (Close in medium)
	Normally close (Open in medium)
Maximum Pressure	<10 Kg/cm <sup>2</sup>
Work Temperature	-10 °C~+105 °C
Ambient Temperature	-25.....+ 70 °C
Repeatability	$\pm 1 \text{ mm}$
Response Time	2 ms
Switching-on delay time	0 Sec.(Default) , 5 sec. (Option)
Installation Torque	50 Kgf-cm
Ingress Protection	IP65
Cable Specification	$\varnothing 5 \times 3\text{C}$ PVC cable 1m

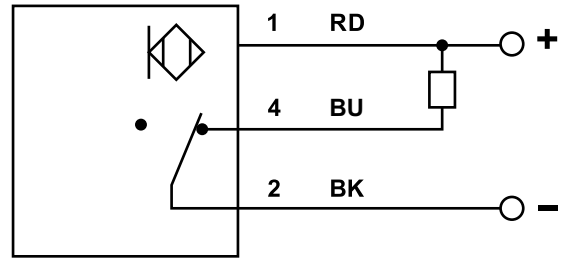
# Wiring

Transistor NPN  
Make switching



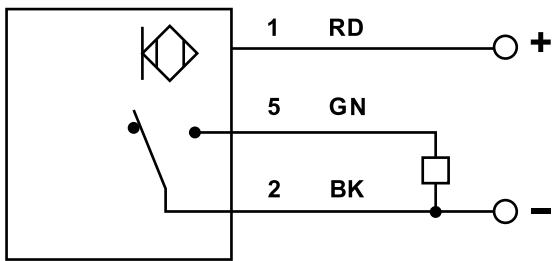
Wet Sensing

Transistor NPN  
Break switching



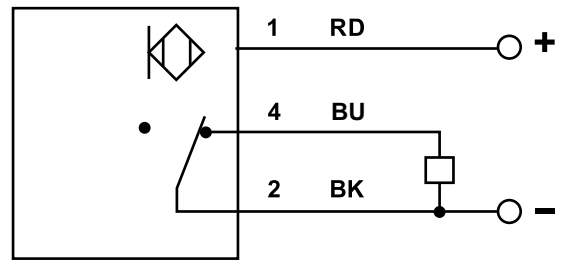
Dry Sensing

Transistor PNP  
Make switching

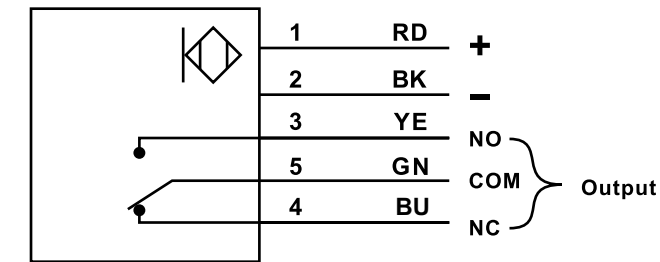


Wet Sensing

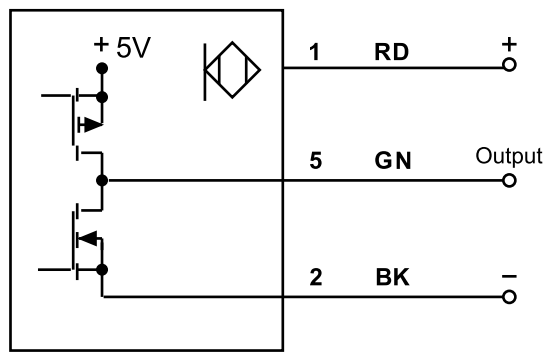
Transistor PNP  
Break switching



Dry Sensing



Relay



TTL /CMOS Compatible

M12-Connection Diagram

