

The Comus Group of companies

Order Information

Example: OPT-PC-AR-I

Housing Material

PC= Polycarbonate (Standard) PS= Polysulfone A2 = 304 Grade Stainless Steel A4= 316 Grade Stainless Steel

Connection Thread

AR = G 3/8" (RSP)AU = 3/8 NPT (SS304 & SS316 only) M2= M12 x 1.0 (Polycarbonate & Polysulfone only)

Output

I = PNP NC

*NO: Wet, In liquid NC: Dry, out of liquid

The Comus International group of companies consists of:

COMUS

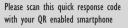
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COMUS



OPT-__- - __- - __

2 = PNP NO3= NPN NC 4= NPN NO

Website: http://www.comus-intl.com CERTIFICATE NO: 03-12314



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Optical Level Switches

The Comus Group of companies

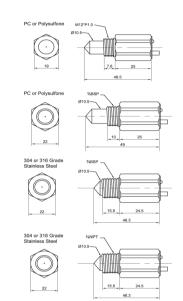
We also have a large network of worldwide agents. These can be found on any of our websites, or on our company profile brochure

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Optical Level Switches

Dimensions



Operational principle

An optical level switch works by emitting a beam of infrared light within a prism and measuring the amount of light received. When the measured fluid reaches the sensor the amount of emitted light received drops thus triggering the contacts. As the sensor is detecting the state between material covering or not covering the prism it can be used to detect the presence or absence of fluid thus preventing damage to pumps.

The compact unit houses the infrared transmitter, the prism, the receiver and the electronics, there is also an external LED indicator to show the condition of the switch. The sensor requires a power supply of between 10-28 Volts Dc. The benefit of the modern optical sensor is that there are no moving parts that can retain material and get clogged up or damaged, simply fit and forget.

For ordering information please refer to the part number breakdown on the reverse of this brochure.

Applications

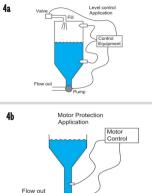
Liquid Level Control

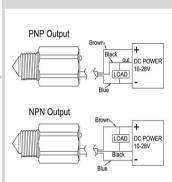
In fig 4a two optical switches are installed individually in the upper and lower level of the tank.

When liquid rises to cover the upper optical switch it will trigger the solenoid valve to close. When the liquid level drops to the lower level the optical switch reopens the solenoid to refill the tank.

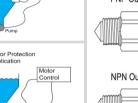
Motor protection

In Fig 4b an optical switch is installed in the lower level of the tank which will cut the power to the pump thus protecting it from damage.





304 or 316 Grade 304 or 316 Grade 100	CE	CE	CE	CE	ce	CE
ТҮРЕ	OPT-PC	OPT-PS	OPT-PC	OPT-PS	OPT-A2	OPT-A4
Hex Size	19mm	19mm	22mm	22mm	22mm	22mm
Body Material	Polycarbonate	Polysulfone	Polycarbonate	Polysulfone	304 Grade Stainless Steel	316 Grade Stainless Steel
Load Current (Max)	I 00mA	I 00mA	I 00mA	I 00mA	100mA	100mA
Overload Current Protection (Max)	I OOmA	I 00mA	I 00mA	I OOmA	100mA	100mA
Ambient Light (Max)	5000 Lux (visible light)					
Power Supply	10~28 Volts DC					
Operation Temperature	-10°C~125°C	-10°C~125°C	-10°C~125°C	-10°C~125°C	-10°C~125°C	-10°C~125°C
Ambient Temperature	-10°C~80°C	-10°C~80°C	-10°C~80°C	-10°C~80°C	-10°C~80°C	-10°C~80°C
Operation Pressure	10Kg/cm2	10Kg/cm2	10Kg/cm2	10Kg/cm2	40Kg/cm2	40Kg/cm2
Connection Thread	M12 x1.0 (PC, Polysulfone Only)	M12 x1.0 (PC, Polysulfone Only)	3/8" G (BSP)	3/8" G (BSP)	3/8" G (BSP) 3/8" NPT	3/8" G (BSP) 3/8" NPT (ST/ST Only)
Contact Model	NO or NC PNP or NPN output					
Ingress Protection	IP68	IP68	IP68	IP68	IP68	IP68
Cable	2m (dia 3.8) 3C PVC 22 AWG, Custom made if over 2m	2m (dia 3.8) 3C PVC 22 AWG, Custom made if over 2m	2m (dia 3.8) 3C PVC 22 AWG, Custom made if over 2m	2m (dia 3.8) 3C PVC 22 AWG, Custom made if over 2m	2m (dia 3.8) 3C PVC 22 AWG, Custom made if over 2m	2m (dia 3.8) 3C PVC 22 AWG, Custom made if over 2m



Wiring