


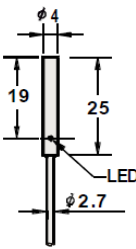
**DC ULTRA- MINI INDUCTIVE PROXIMITY SWITCH (φ3)**



Diameter	φ3			
Flushed/Unflushed	Flushed			
Switching Distance Sn mm	0.6 mm			
Housing Material	stainless steel			
With LED/Without LED	With LED			
Picture			CE	
Operating Voltage	10-30VDC			
Ripple	<10%			
No Load Current	<10mA			
Max. Load Current	100mA			
Leakge Current	<0.01mA			
Voltage Drop	<1.5V			
Switching Frequency	2KHZ			
Response Time	0.1ms/0.1ms			
Switching Hysteresis	<15%(Sr)			
Repeat Accuracy	<1.0%(Sr)			
Protection Category	IP67			
Operating Temperature	-25 °C - +70 C			
Temperature Drift	<10%(Sr)			
Short Circuit Protection	YES			
Overload Trip Point	120mA			
Material Active Face	POM			
DC 3 wire 10-30V NPN N.O.	IPF030.6-N	wiring diagram	1	
DC 3 wire 10-30V NPN N.C.	IPF030.6-N2		2	
DC 3 wire 10-30V PNP N.O.	IPF030.6-P		3	
DC 3 wire 10-30V PNP N.C.	IPF030.6-P2		4	
DC 4 wire 10-30V Changeover PNP (N.O. & N.C.)	-			
DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)	-			
DC 2 wire 10-60V N.O.	-			
DC 2 wire 10-60V N.C.	-			
DC 3 wire 10-55v NPN N.O.	-			
DC 3 wire 10-55v NPN N.C.	-			
DC 3 wire 10-55v PNP N.O.	-			
DC 3 wire 10-55v PNP N.C.	-			
DC 3 wire 5-36V PNP N.C.	-			
DC 3 wire 5-36V PNP N.O.	-			
DC 3 wire 5-36V NPN N.C.	-			
DC 3 wire 5-36V NPN N.O.	-			
DC 4 wire 5-36V Changeover PNP (N.O & N.C.)	-			
DC 4 wire 5-36V Changeover NPN (N.O & N.C.)	-			
Dimensions (unit: mm)				
Connection	Cable 2M (PVC) 2.3φ 3x0.15			
Weight	approx.25 g			


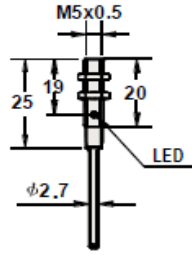
**DC ULTRA- MINI INDUCTIVE PROXIMITY SWITCH (φ4)**

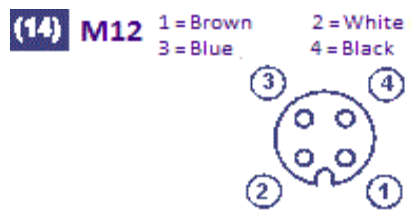
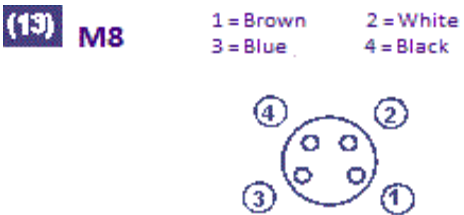
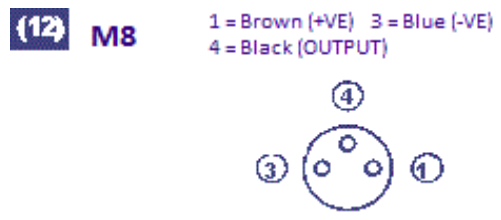
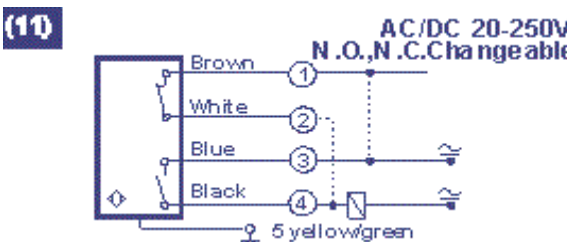
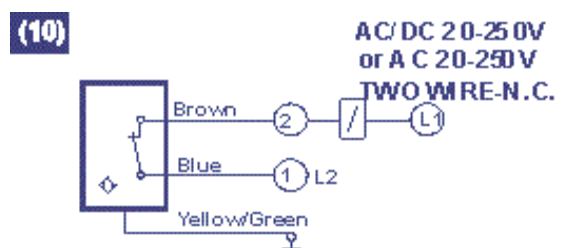
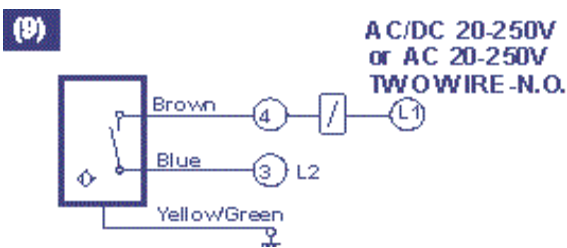
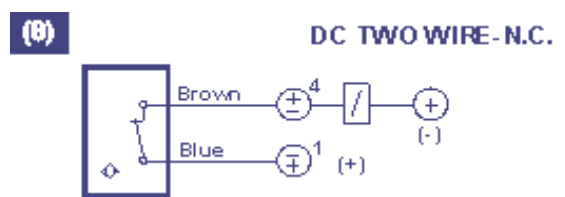
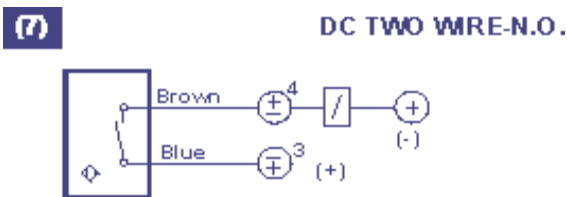
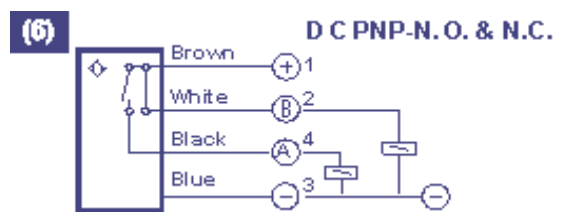
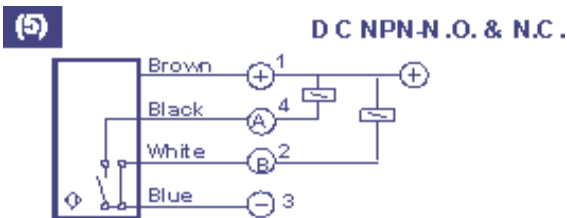
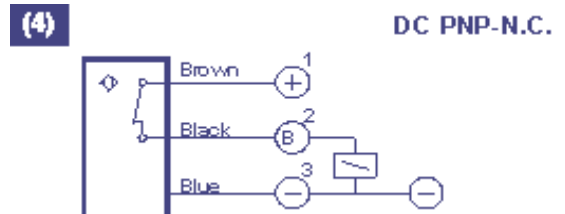
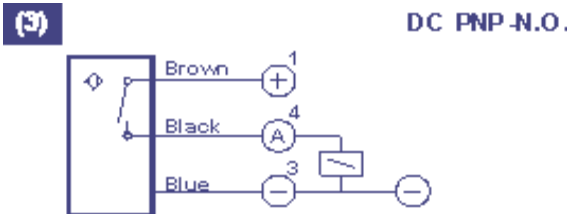
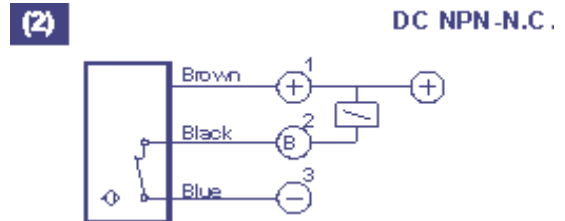
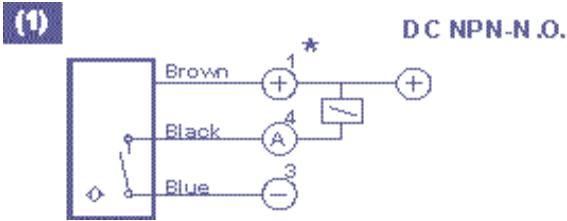


Diameter	φ4			
Flushed/Unflushed	Flushed			
Switching Distance Sn mm	1.5 mm			
Housing Material	stainless steel			
With LED/Without LED	With LED			
Picture			CE	
Operating Voltage	10-30VDC			
Ripple	<10%			
No Load Current	<10mA			
Max. Load Current	100mA			
Leakge Current	<0.01mA			
Voltage Drop	<1.5V			
Switching Frequency	2KHZ			
Response Time	0.1ms/0.1ms			
Switching Hysteresis	<15%(Sr)			
Repeat Accuracy	<1.0%(Sr)			
Protection Category	IP67			
Operating Temperature	-25 °C - +70 C			
Temperature Drift	<10%(Sr)			
Short Circuit Protection	YES			
Overload Trip Point	120mA			
Material Active Face	POM			
DC 3 wire 10-30V NPN N.O.	IPF041.5-N	wiring diagram	1	
DC 3 wire 10-30V NPN N.C.	IPF041.5-N2		2	
DC 3 wire 10-30V PNP N.O.	IPF041.5-P		3	
DC 3 wire 10-30V PNP N.C.	IPF041.5-P2		4	
DC 4 wire 10-30V Changeover PNP (N.O. & N.C.)	-			
DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)	-			
DC 2 wire 10-60V N.O.	-			
DC 2 wire 10-60V N.C.	-			
DC 3 wire 10-55v NPN N.O.	-			
DC 3 wire 10-55v NPN N.C.	-			
DC 3 wire 10-55v PNP N.O.	-			
DC 3 wire 10-55v PNP N.C.	-			
DC 3 wire 5-36V PNP N.C.	-			
DC 3 wire 5-36V PNP N.O.	-			
DC 3 wire 5-36V NPN N.C.	-			
DC 3 wire 5-36V NPN N.O.	-			
DC 4 wire 5-36V Changeover PNP (N.O & N.C.)	-			
DC 4 wire 5-36V Changeover NPN (N.O & N.C.)	-			
Dimensions (unit: mm)				
Connection	Cable 2M (PVC) 2.7φ 3x0.15			
Weight	approx.25 g			

# DC ULTRA- MINI INDUCTIVE PROXIMITY SWITCH (M5)



Diameter	M5			
Flushed/Unflushed	Flushed			
Switching Distance Sn mm	1.5 mm			
Housing Material	stainless steel			
With LED/Without LED	With LED			
Picture			CE	
Operating Voltage	10-30VDC			
Ripple	<10%			
No Load Current	<10mA			
Max. Load Current	200mA			
Leakge Current	<0.01mA			
Voltage Drop	<1.5V			
Switching Frequency	2KHZ			
Response Time	0.1ms/0.1ms			
Switching Hysteresis	<15%(Sr)			
Repeat Accuracy	<1.0%(Sr)			
Protection Category	IP67			
Operating Temperature	-25 °C - +70 C			
Temperature Drift	<10%(Sr)			
Short Circuit Protection	YES			
Overload Trip Point	220mA			
Material Active Face	POM			
DC 3 wire 10-30V NPN N.O.	IPF051.5-N	wiring diagram	1	
DC 3 wire 10-30V NPN N.C.	IPF051.5-N2		2	
DC 3 wire 10-30V PNP N.O.	IPF051.5-P		3	
DC 3 wire 10-30V PNP N.C.	IPF051.5-P2		4	
DC 4 wire 10-30V Changeover PNP (N.O. & N.C.)	-			
DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)	-			
DC 2 wire 10-60V N.O.	-			
DC 2 wire 10-60V N.C.	-			
DC 3 wire 10-55v NPN N.O.	-			
DC 3 wire 10-55v NPN N.C.	-			
DC 3 wire 10-55v PNP N.O.	-			
DC 3 wire 10-55v PNP N.C.	-			
DC 3 wire 5-36V PNP N.C.	-			
DC 3 wire 5-36V PNP N.O.	-			
DC 3 wire 5-36V NPN N.C.	-			
DC 3 wire 5-36V NPN N.O.	-			
DC 4 wire 5-36V Changeover PNP (N.O & N.C.)	-			
DC 4 wire 5-36V Changeover NPN (N.O & N.C.)	-			
Dimensions (unit: mm)				
Connection	Cable 2M (PVC) 2.7φ 3x0.15			
Weight	approx.25 g			



\*NOTE: for wiring diagram 13 & 14, kindly refer to diagram 5 or 6 for the output and voltage.

\*Example: if the chosen model is NPN NC, referring to diagram 5, white is NPN NC, thus black has no connection.