

## DC PROXIMITY SWITCH (NAMUR) (2 WIRE VERSION)

### INTRODUCTION :

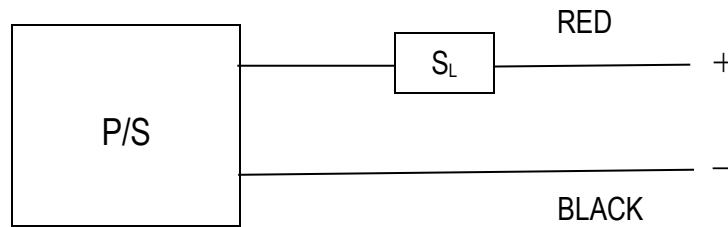
These are analogue output switches called 'NAMUR' output switches. These are 2 wire DC switches consisting only the sensor part of the total circuit. Due to their low current and voltage, these switches are most suitable in explosive or hazardous areas, when used with switching amplifier conforming to DIN 19234. The Low impedance of the switch is virtually immune to interface pick-up on the lead connecting to its amplifier. The switching can also be obtained through interface circuit or custom microprocessor besides switching amplifier. Besides its application in the hazardous areas, these can be used in normal environment where in space is the criteria. In such cases the amplifier unit can be kept in control panel and signals can be used led to it through a long cable.

### TECHNICAL DATA :

- |                            |   |   |
|----------------------------|---|---|
| 1. Supply Voltage range    | - | 8.2 V DC (Typically)                      |
| 2. Ripple in Supply        | - | 10% max.                                  |
| 3. Current consumption     | - | In presence of metal $\leq$ 1mA           |
|                            | - | In absence of metal $\leq$ 3mA            |
| 4. Temp                    | - | - 25° C to +70° C                         |
| 5. Degree of Protection    | - | IP 67                                     |
| 6. Temperature Drift       | - | 5% Typical                                |
| 7. Repeat Accuracy % of Sn | - | $\leq$ 3                                  |
| 8. Housing                 | - | Nickel/Chrome plated, Brass               |
|                            |   | Housing (Full Threaded) with 2 lock nuts. |



SIZE mm	MOUNTING	SN MM
M12 x 1 x 40	F	2
	NF	4
M18 x 1 x 40	F	5
	NF	8



S<sub>L</sub> = Resistance in Control circuit  
(Recommended value 1k Ω)

### **SWITCHING AMPLIFIER**



Supply : 230/110 V AC  
 Input : 2 wire DC proximity SWITCH (NAMUR)  
 Output : Relay C/O  
 Indicator : POWER ON LED  
 SWITCH ON LED

### **NOTE :**

Standard Switching amplifier gets 'ON' when 'NAMUR' switch is damped by metal. Custom built switching amplifier are available which gets 'OFF' when NAMUR Switch is damped by metal.



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