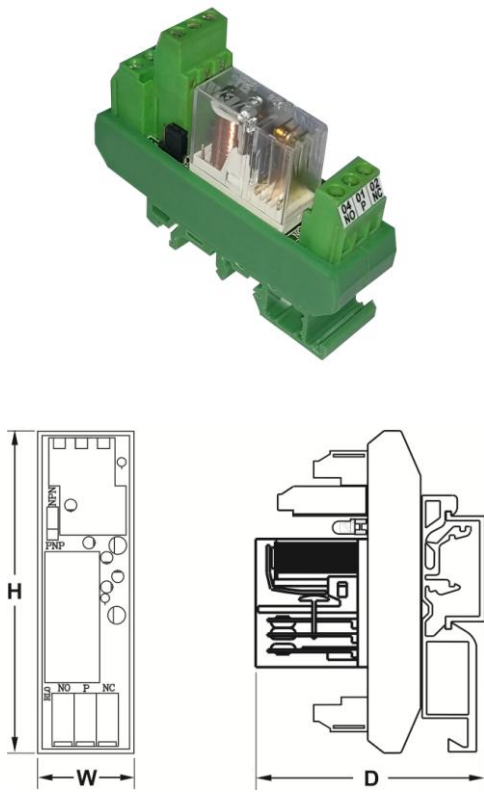


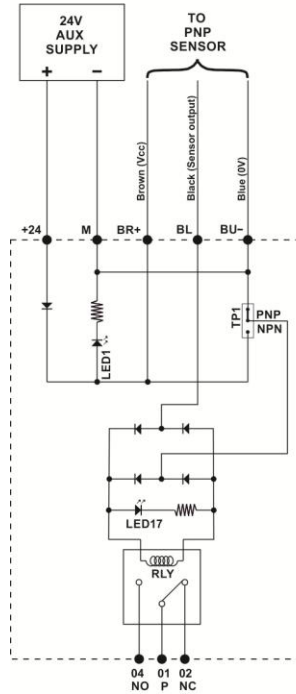
# PNP / NPN SENSOR INPUT RELAY MODULE

## TYPICAL APPLICATION

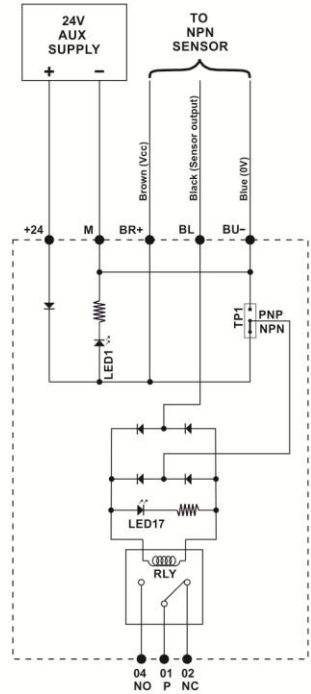


Dimensions

### Using PNP sensor

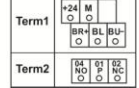


### Using NPN sensor



TP1 : Jumper for PNP / NPN Selection.  
LED1 : Green (Aux. supply).  
LED17 : Red (Sensor input).

Terminal layout & Designations



schematic

Note: Default jumper setting for PNP.

|                                 |  |   |                     |                               |                   |                                  |                     |
|---------------------------------|--|---|---------------------|-------------------------------|-------------------|----------------------------------|---------------------|
| <b>FEATURES</b>                 | LED indication for relay ON / OFF<br>PNP & NPN selection at coil side by jumpers.  |   |                     |                               |                   |                                  |                     |
| <b>CONTACT CONFIGURATION</b>    | 1C/O   |   |                     |                               |                   |                                  |                     |
| <b>NO. OF CHANNELS</b>          | 1  |   |                     |                               |                   |                                  |                     |
| <b>RELAY</b>                    | <b>NOMINAL COIL VOLTAGE</b>  | 24VDC   |                     |                               |                   |                                  |                     |
|                                 | <b>MUST OPERATE VOLTAGE</b>  | 21VDC   |                     |                               |                   |                                  |                     |
|                                 | <b>MUST RELEASE VOLTAGE</b>  | 6.2VDC  |                     |                               |                   |                                  |                     |
|                                 | <b>MAX. COIL VOLTAGE</b>   | 26.4VDC   |                     |                               |                   |                                  |                     |
|                                 | <b>COIL CURRENT PER CHANNEL<sup>(1)</sup></b>  | 25mA  |                     |                               |                   |                                  |                     |
|                                 | <b>OPERATE (SET) TIME</b>  | 15ms max.   |                     |                               |                   |                                  |                     |
|                                 | <b>RELEASE (RESET) TIME</b>  | 20ms max.   |                     |                               |                   |                                  |                     |
|                                 | <b>ENDURANCE</b>   | Electrical : 100,000 operations min. (at 1,800 operations/hr) |                     |                               |                   |                                  |                     |
| <b>MAX. OPERATING FREQUENCY</b> | Mechanical : 18,000 operations/hr<br>Electrical : 1,800 operations/hr  |   |                     |                               |                   |                                  |                     |
| <b>DIELECTRIC STRENGTH</b>      | 1. Coil to coil (when isolated) : 100VAC , 50/60 Hz for 1 minute<br>2. Coil to contact : 2KVAC , 50/60 Hz for 1 minute<br>3. Contacts of same polarity : 1KVAC , 50/60 Hz for 1 minute<br>4. Contacts - channel to channel : 1.5KVC, 50/60 Hz for 1 minute |   |                     |                               |                   |                                  |                     |
| <b>CONTACT RATING</b>           | <b>RELAY</b>   | 10A@28VDC/230VAC  |                     |                               |                   |                                  |                     |
|                                 | <b>ON BOARD</b>  | 5A@28VDC/230VAC   |                     |                               |                   |                                  |                     |
| <b>OPERATING AMBIENT</b>        | 0~55°C, 85% RH   |   |                     |                               |                   |                                  |                     |
| <b>STORAGE AMBIENT</b>          | -20°C to 85°C  |   |                     |                               |                   |                                  |                     |
| <b>TERMINATIONS</b>             | <b>COIL TERMINATION</b>  | Screw type, for 2.5mm sq. wire                                |                     |                               |                   |                                  |                     |
|                                 | <b>CONTACT TERMINATION</b>   | Screw type, for 2.5mm sq. wire                                |                     |                               |                   |                                  |                     |
| <b>MOUNTING</b>                 | 35 mm DIN rail   |   |                     |                               |                   |                                  |                     |
| <b>ORDERING INFORMATION</b>     | <b>AS471 - 24V - S - OE</b>  |   |                     |                               |                   |                                  |                     |
|                                 | <b>NO. OF RELAYS</b>   | <b>DESIGN NO.</b>   | <b>COIL VOLTAGE</b> | <b>RELAY SOCKET</b>           | <b>RELAY MAKE</b> | <b>DIMENSIONS W x H x D (mm)</b> | <b>WEIGHT (MAX)</b> |
|                                 | 1  | AS471   | 24V : 24VDC         | S : WITH SOCKET<br>: SOLDERED | OE : OEN 58       | 24 x 80 x 70                     | 60 grams            |

Note : 1. Current including LED current.