



| Type                 | SD - 21R                                            |  | SD - 21N                              |  | SD - 21P                              |  |
|----------------------|-----------------------------------------------------|--|---------------------------------------|--|---------------------------------------|--|
| Characteristics      |                                                     |  |                                       |  |                                       |  |
| Wiring               | 2Wire                                               |  | 3 Wire                                |  |                                       |  |
| Connect Diagram      |                                                     |  |                                       |  |                                       |  |
| Switching logic      | Normally open                                       |  | Solid state output, Normally open     |  |                                       |  |
| Output               | Reed switch                                         |  | NPN Sinking                           |  | PNP Sourcing                          |  |
| Lead wire type       | Horizontal                                          |  |                                       |  |                                       |  |
| Load voltage         | 5 ~ 240V DC/AC                                      |  | 5~28V DC                              |  |                                       |  |
| Load current         | 100mA Max.                                          |  | 200mA Max.                            |  |                                       |  |
| Switching rating     | 10W Max.                                            |  | 6W Max.                               |  |                                       |  |
| Current consumption  | ---                                                 |  | 20mA Max.@ 24V                        |  | 18mA Max.@ 24V                        |  |
| Voltage drop         | 2.5V Max.@ 40mA DC                                  |  | 0.5V Max.@ 200mA (Resistive load)     |  |                                       |  |
| Leakage current      | ---                                                 |  | 0.01mA Max.                           |  |                                       |  |
| Frequency            | 200Hz                                               |  | 1000Hz                                |  |                                       |  |
| Shock                | 30G                                                 |  | 50G                                   |  |                                       |  |
| Vibration            | 90 m/s <sup>2</sup> (9G), Double amplitude 1.5 mm   |  |                                       |  |                                       |  |
| Insulation resistant | DC 500V 100MΩ ( Lead wire to case )                 |  |                                       |  |                                       |  |
| Withstand voltage    | AC 1000V ( 50/60Hz ) 1 minute ( Lead wire to case ) |  |                                       |  |                                       |  |
| CE & Protection IP   | EN60947-5-2 IEC529 IP67(NEMA 6)                     |  |                                       |  |                                       |  |
| Indicator            | Red LED                                             |  |                                       |  | Green LED                             |  |
| Cable                | 4.0φ, 2C, Gray PVC                                  |  | 4.0φ, 3C, Black PVC                   |  |                                       |  |
| Temperature range    | -10 ~ 70                                            |  |                                       |  |                                       |  |
| Protection circuit   | ---                                                 |  | Reverse polarity; Surge suppression   |  |                                       |  |
| Dimensions           | SD-21R<br>SD-21R-M8QD<br>SD-21R-M12QD               |  | SD-21N<br>SD-21N-M8QD<br>SD-21N-M12QD |  | SD-21P<br>SD-21P-M8QD<br>SD-21P-M12QD |  |
| M8&M12-Connector     |                                                     |  |                                       |  |                                       |  |
|                      |                                                     |  |                                       |  | M8 ( 2-Wire QD Link)                  |  |
|                      |                                                     |  |                                       |  | M8 ( 2-Wire E-QD Link)                |  |
|                      |                                                     |  |                                       |  | M8 ( 3-Wire QD Link)                  |  |
|                      |                                                     |  |                                       |  | M12 ( 3-Wire QD Link)                 |  |