

# Safety Relay Data Sheet

The safety relay adopts high-quality copper parts, durable, internal wires for terminals, more convenient installation, heat-resistant and cold-resistant to meet the needs of different environments.



## Specifications:

| Model                                 | SR4P2A1B24C  | SR4P2A1B24S          | SR4P2A1B22           | SR4P2A1B24           | SR4P3A1B24           | SR4P2A1B24N/P-M      |
|---------------------------------------|--|----------------------|----------------------|----------------------|----------------------|----------------------|
| Output contact                        | 2N/O,1N/C  |                      | 2N/O,1N/C            |                      | 3N/O,1N/C            | 2N/O,1N/C            |
| Reset mode                            | Auto or manual   | /                    | Auto or manual       |                      | Auto or manual       |                      |
| Working voltage                       | DC24V  | DC24V                | DC/AC85-264V         | DC24V                | DC24V                | DC24V                |
| Consumption                           | 3W   |                      |                      |                      |                      |                      |
| Mean time between dangerous failures  | 94A  | 398A                 | 60A                  | 111A                 | 111A                 | 374A                 |
| Average hourly hazardous failure time | 2.5*10 <sup>-8</sup>   | 2.6*10 <sup>-8</sup> | 4.7*10 <sup>-8</sup> | 2.5*10 <sup>-8</sup> | 2.5*10 <sup>-8</sup> | 2.6*10 <sup>-8</sup> |
| Switching capacity                    | AC-15,5A/250V;DC-13,6A/24V   |                      |                      |                      |                      |                      |
| Release buffer time                   | <15mS  |                      |                      |                      |                      |                      |
| Diagnostic Coverage                   | >99%   |                      |                      |                      |                      |                      |
| Protection grade                      | IP50   |                      |                      |                      |                      |                      |
| Operation temperature                 | -10~55°C   |                      |                      |                      |                      |                      |
| Storage temperature                   | -40~85°C   |                      |                      |                      |                      |                      |
| Wire cross-sectional area             | Max.2.5mm <sup>2</sup>   |                      |                      |                      |                      |                      |
| Length                                | Max.10m  |                      |                      |                      |                      |                      |
| Size                                  | 96*22.5*116mm(L*W*H)   |                      |                      |                      |                      |                      |
| Compliant with standards              | EN 60947-5-1, EN61000-6-2, EN61000-6-3IEC/EN 60204-1, EN ISO 13849-1 |                      |                      |                      |                      |                      |

## Note:

| Use to<br>Model | Emergency stop switch for safety door switch | Two handed button | Dual NPN output safety light curtain | Dual PNP output safety light curtain | Inhibition function |
|-----------------|--|-------------------|--------------------------------------|--------------------------------------|---------------------|
| SR4P2A1B22      | ✓  |                   |                                      |                                      |                     |
| SR4P2A1B24      | ✓  |                   |                                      |                                      |                     |
| SR4P3A1B24      | ✓  |                   |                                      | ✓                                    |                     |
| SR4P2A1B24S     |  | ✓                 |                                      |                                      |                     |
| SR4P2A1B24N     |  |                   | ✓                                    |                                      |                     |
| SR4P2A1B24P     |  |                   |                                      | ✓                                    |                     |
| SR492A1B24N-M   |  |                   | ✓                                    |                                      | ✓                   |
| SR4P2A1B24P-M   |  |                   |                                      | ✓                                    | ✓                   |
| SR4P2A1B24C     |  |                   | ✓                                    | ✓                                    |                     |

## Wring Diagram:

### 1. SR4P2A1B24C:

Safety light curtain NPN output: