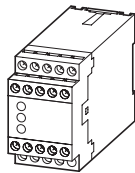

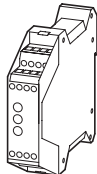






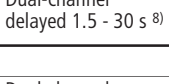
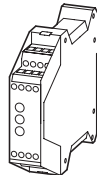

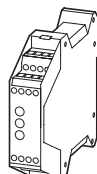

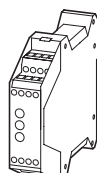





# ESR Electronic Safety Relays

## Basic Units, Contact Expansion Module

Industrial Control Relays,  
Electronic Timing Relays

| Actuating voltage $U_c$  | Relay safety category to EN 954-1   | Enabling path to IEC/EN 60 204    | Signalling contact |                | Type | Price                                       |
|--|---|-----------------------------------|--------------------|----------------|------|---|
|  |   |                                   | Article No.        | see price list |      |   |
|  |   |                                   | Stop category      | 0              | 1    |   |
| <b>Safety relay for Emergency-Stop and protective-door monitoring<sup>1)</sup></b>                   |   |                                   |                    |                |      |   |
|  230 V 50/60 Hz     | Dual-channel  | 4                                 | 3                  | -              | 1    | <b>ESR3-NO-31(230V)</b><br>214615           |
|  |    |                                   |                    |                |      |   |
|  24 V DC 50/60 Hz   | Single-channel  | 3                                 | 3                  | -              | 1    | <b>ESR4-NO-31</b><br>214612                 |
|  |    |                                   |                    |                |      |   |
|  24 V DC 50/60 Hz   | Dual-channel  | 4                                 | 2                  | -              | 1    | <b>ESR4-NO-21</b><br>214613                 |
|  |    |                                   |                    |                |      |   |
|  24 V DC            | Dual-channel<br>Off-delayed 0.15 - 3 s  | 3 <sup>4)</sup> / 4 <sup>5)</sup> | 2                  | 1              | -    | <b>ESR4-NV3-30</b><br>214616                |
|  24 V DC            | Dual-channel<br>Off-delayed 1.5 - 30 s  | 3 <sup>4)</sup> / 4 <sup>5)</sup> | 2                  | 1              | -    | <b>ESR4-NV30-30</b> <sup>6)</sup><br>214617 |
|  24 V DC          | Dual-channel<br>delayed 1.5 - 30 s <sup>8)</sup>                                    | 3 <sup>4)</sup> / 4 <sup>5)</sup> | 2                  | 1              | -    | <b>ESR4-NT30-30</b> <sup>7)</sup><br>225011 |
|  |  |                                   |                    |                |      |   |
| <b>Safety relay for safety mat monitoring<sup>1)</sup></b>   |   |                                   |                    |                |      |   |
|  24 V DC          | Dual-channel  | 4                                 | 2                  | -              | 1    | <b>ESR4-NM-21</b><br>214619                 |
|  |  |                                   |                    |                |      |   |
| <b>Two-hand control relay<sup>1) 9)</sup></b>  |   |                                   |                    |                |      |   |
|  24 V DC 50/60 Hz | Dual-channel  | 4                                 | 2                  | -              | 1    | <b>ESR4-NZ-21</b><br>214620                 |
|  |  |                                   |                    |                |      |   |
| <b>Contact expansion modules<sup>1)</sup></b>  |   |                                   |                    |                |      |   |
|  24 V DC 50/60 Hz | non-delayed   | 4 <sup>2)</sup>                   | 4 <sup>3)</sup>    | -              | 2    | <b>ESR4-NE-42</b><br>214614                 |
|  |  |                                   |                    |                |      |   |
|  24 V DC          | delayed $t_A = 3$ s   | 4 <sup>2)</sup>                   | -                  | 4              | 2    | <b>ESR4-VE3-42</b><br>214618                |
|  |  |                                   |                    |                |      |   |

**Notes**

- 1) Additional information and switching examples → Safety Application Guide TB0-009GB
- 2) The basic unit determines the maximum safety category
- 3) The basic unit determines the maximum stop category
- 4) Delayed contacts
- 5) Non-delayed contacts
- 6) Suitable for AT0-...MT-ZBZ safety position switches with mechanical securing action.
- 7) Suitable for AT0-...FT-ZBZ safety position switches with mechanical securing action
- 8) Contact closes following Emergency-Stop actuation, on-delayed
- 9) Suitable for applications to EN 574, Type III C