





















Application

The 3RK3 Modular Safety System can be used for all safety-related requirements in the manufacturing industry and offers the following safety functions:

| | Symbol | MSS Basic | MSS Advanced, MSS ASIsafe |
|--|---|-----------|------------------------------|
| Monitoring functions | | | |
| Universal monitoring Evaluation of any binary signals from single-channel and two-channel sensors |  | -- | ✓ |
| EMERGENCY-STOP Evaluation of EMERGENCY-STOP devices with positive-opening contacts |  | ✓ | ✓ |
| Switching mats Evaluation of switching mats with NC contacts and/or crossover detection |  | ✓ | ✓ |
| Protective door monitoring Evaluation of protective door signals and/or protective flap signals |  | ✓ | ✓ |
| Protective door tumbler Evaluation of protective doors with tumbler and of the actuation/release of this tumbler |  | -- | ✓ |
| OK buttons Evaluation of OK buttons with NO contact |  | ✓ | ✓ |
| Two-hand operator controls Evaluation of two-hand operator controls |  | ✓ | ✓ |
| ESPE monitoring Evaluation of non-contact protective devices, e.g. light curtains and laser scanners |  | ✓ | ✓ |
| Muting Temporary bridging of non-contact protective devices, 2/4 sensors in parallel, 4 sensors in sequence |  | -- | ✓ |
| Operating mode selector switches Evaluation of operating mode selector switches with NO contacts |  | ✓ | ✓ |
| Monitoring AS-i (AS-i 2F-DI) Logic element for monitoring of AS-i input slaves |  | -- | ✓ |

| | Symbol | MSS Basic | MSS Advanced, MSS ASIsafe |
|----------------------------------|---|-----------|------------------------------|
| Logic operation functions | | | |
| AND |  | ✓ | ✓ |
| OR |  | ✓ | ✓ |
| XOR |  | ✓ | ✓ |
| NAND |  | ✓ | ✓ |
| NOR |  | ✓ | ✓ |
| Negation |  | ✓ | ✓ |
| Flip-flop |  | ✓ | ✓ |
| Counting functions | | | |
| Counter 0 -> 1 |  | ✓ | ✓ |
| Counter 1 -> 0 |  | ✓ | ✓ |
| Counter 0 -> 1/1 -> 0 |  | ✓ | ✓ |
| Timer functions | | | |
| With ON-delay |  | ✓ | ✓ |
| Passing make contact |  | ✓ | ✓ |
| With OFF-delay |  | ✓ | ✓ |
| Clock-pulsing |  | ✓ | ✓ |
| Start functions | | | |
| Monitored start |  | ✓ | ✓ |
| Manual start |  | ✓ | ✓ |
| Output functions | | | |
| Standard output |  | ✓ | ✓ |
| F output |  | ✓ | ✓ |
| AS-i output function |  | -- | ✓ |
| Status functions | | | |
| Element status |  | -- | ✓ |

✓ Available

-- Not available