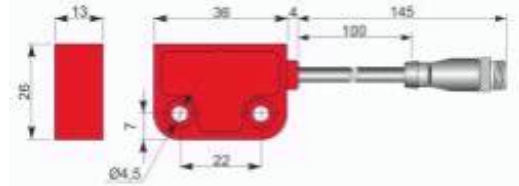




**Part number: QMP000011 - Model: SMS36-P5 2NC HC PR**



Dimension in mm

### TECHNICAL CHARACTERISTICS

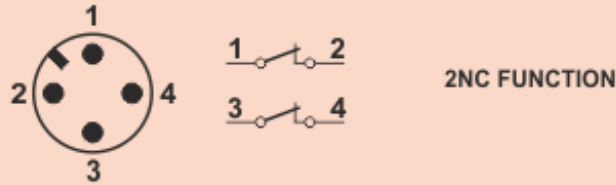
|                                       |  |
|---------------------------------------|--|
| Rated operational voltage Ue:         | 24 Vac/dc  |
| Rated operational current Ie:         | 0.25A  |
| Max switching load:                   | 6W (resistive load)  |
| Function:                             | 2NC (with magnetic actuator present)   |
| Thermal current ITh:                  | 0.25A  |
| Rated insulation voltage Ui:          | 120Vac   |
| Rated impulse withstand voltage Uimp: | 1.5KV  |
| Electrical endurance:                 | 1 million of cycles  |
| Assured operating distance Sao:       | 5 mm with target AMS36-P5  |
| Assured release distance Sar:         | 15mm with target AMS36-P5  |
| Repeat accuracy:                      | < 10%  |
| Switching distance:                   | 200Hz  |
| Response time:                        |  |
| SIL level (SIL CL):                   | up to SIL3 according to IEC 62061 e EN 62061   |
| Performance level (PL):               | up to PL e according to EN ISO 13849-1   |
| Safety category:                      | up to 4 according to EN ISO 13849-1  |
| B10d for each channel:                | 400.000 cycles (full load: DC12, 24V, 0.25A) e 20.000.000 of cycles ( with AECO safety Module)       |
| Conformig to the standard:            | EN 60947-1, IEC 60947-1, EN 60947-5-1, IEC 60947-5-1, EN 60947-5-2, IEC 60947-5-2, EN 60947-5-3 , IE |
| Conforms to the directives:           | 2006/42/EC - Machinery Directive and 2014/30/EU - Electromagnetic Compatibility Directive            |
| Temperature limits:                   | -25 ÷ +80°C  |
| Protection degree:                    | IP67   |
| Pollution degree:                     | 3  |
| Schock resistance:                    | 30gn -11ms according to IEC 60068-2-27 and EN 60068-2-27   |
| Vibrations resistance:                | 10gn-(10 ... 150Hz) according to IEC 60068-2-6 and EN 60068-2-6                                      |
| Housing material:                     | PBT +FV  |



Part number: QMP000011 - Model: SMS36-P5 2NC HC PR

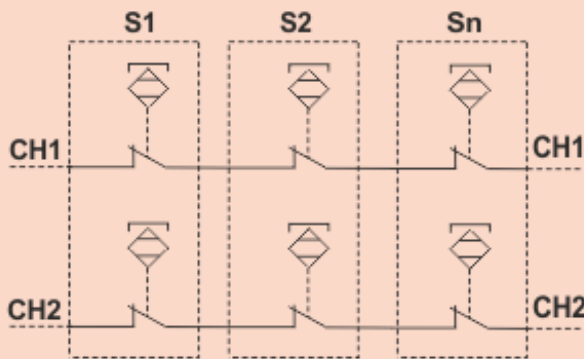
WIRING DIAGRAM

M12x1 CONNECTOR MODEL



INSTRUCTIONS FOR CORRECT INSTALLATION

CONNECTION OF MORE SENSORS TO SAFETY MODULE



It is possible connect in series more safety magnetic sensors to the module **MS-ER MA R01**. The total resistance of the sensors and cables must not exceed the input resistance of the single channel of the safety module. With this technique you can realized circuits up on Category 3 according to ISO EN 13849-1.

S1, S2, .... Sn = Safety magnetic sensors  
 CH1= Input channel 1 of the Safety Module  
 CH2= Input channel 2 of the Safety Module

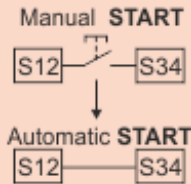
APPLICATIVE CONFIGURATION WITH AECO SAFETY MODULE MS-ER MA R01 ■ SERIES

2 CHANNELS CONFIGURATION WITH MANUAL START

Use models SMS36-P5 2NC ■■ or SMS36-P5 NO+2NC ■■ only

**SAFETY PARAMETER**  
 Integrity Level: SIL3  
 Performance Level: PLe  
 Category: 4

N.B. To realize a circuit with automatic start to replace the button with a jumper between terminals S12 and S34.



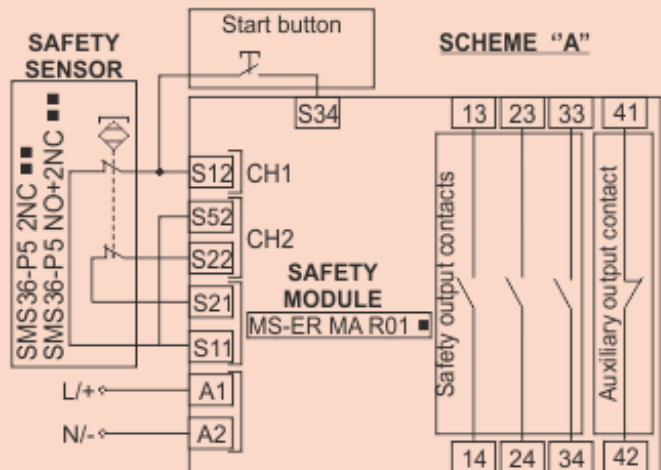
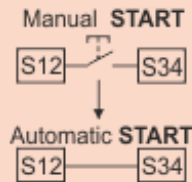
APPLICATIVE CONFIGURATION WITH AECO SAFETY MODULE MS-ER MA R01 ■ SERIES

2 CHANNELS CONFIGURATION WITH MANUAL START

Use models SMS36-P5 2NC ■■ or SMS36-P5 NO+2NC ■■ only

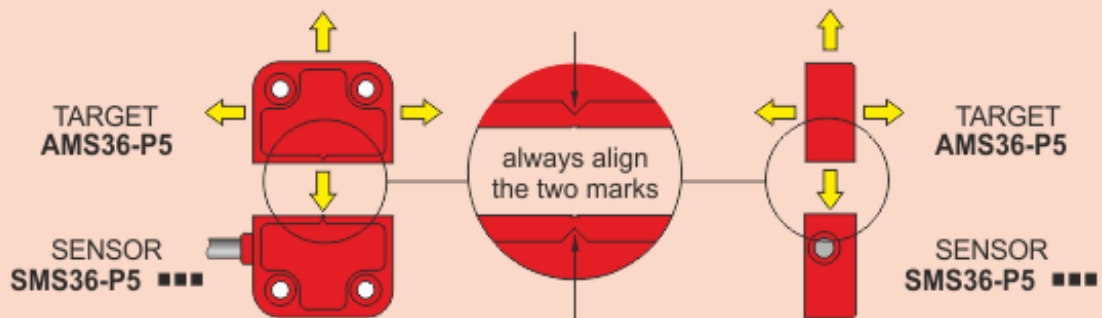
**SAFETY PARAMETER**  
 Integrity Level: SIL3  
 Performance Level: PLe  
 Category: 4

N.B. To realize a circuit with automatic start to replace the button with a jumper between terminals S12 and S34.

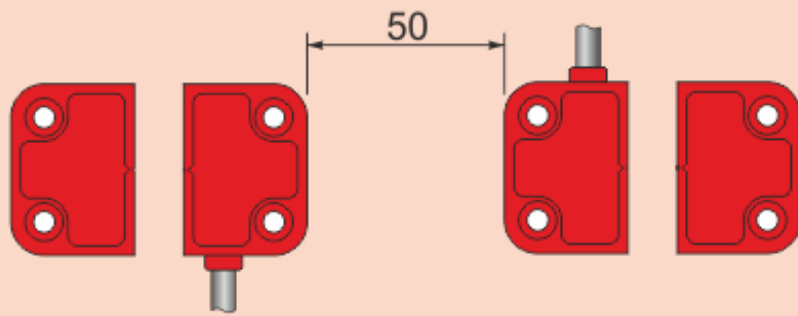


ACTUATING DIRECTIONS

The possible actuating directions are indicated of the arrows.

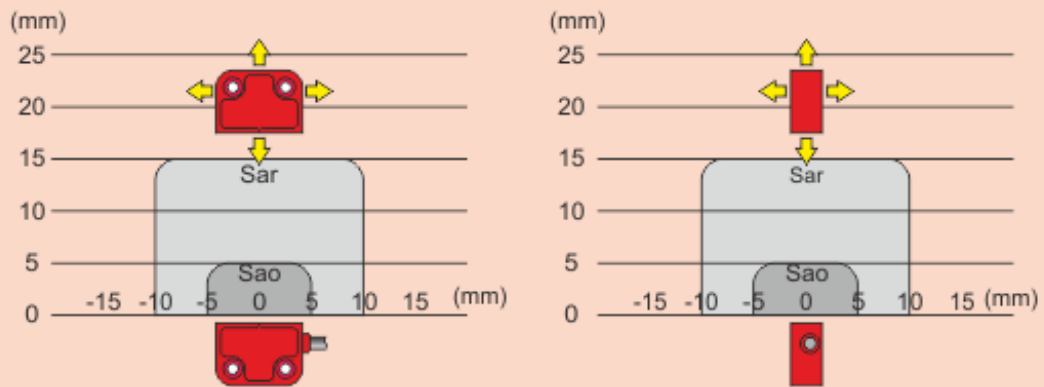


## MULTIPLE SENSOR-ACTUATOR SYSTEMS ASSEMBLY



**N.B.** The minimum distance between *sensor-actuator* systems must be at least 50mm.

## SWITHING DISTANCE



**N.B.** The drawing of the activation areas is indicative.