

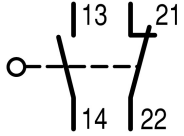
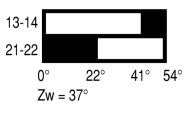





Position switch, 1N/O+1N/C, wide, IP65\_x, roller lever

Part no. **AT0-11-1-IA/R**  
 Catalog No. **043188**

**Delivery program**

|   |  |    |  |
|---|--|----|--|
| Basic function  |  |    | Position switches<br>Safety position switches  |
| Part group reference  |  |    | AT0  |
| Product range   |  |    | Rotary lever   |
| Degree of Protection  |  |    | IP65   |
| Features  |  |    | Complete unit  |
| Ambient temperature   |  | °C | -25 - +70  |
| Design  |  |    | EN 50047 Form A  |
| Approval  |  |    | <b>totally insulated</b>   |
| <b>Contacts</b>   |  |    |  |
| N/O = Normally open   |  |    | 1 N/O  |
| N/C = Normally closed   |  |    | 1 NC    |
| Notes   |  |    |  = safety function, by positive opening to IEC/EN 60947-5-1 |
| Contact sequence  |  |    |   |
| Contact travel <input checked="" type="checkbox"/> = Contact closed <input type="checkbox"/> = Contact open |  |    |    |
| Positive opening (ZW)   |  |    | yes  |
| <b>Colour</b>   |  |    |  |
| Enclosure covers  |  |    | Grey   |
| Enclosure covers  |  |    |    |
| Housing   |  |    | Insulated material   |
| Connection type   |  |    | Screw terminal   |

**Notes** The operating head can be rotated at 90° intervals to adapt to the specified approach direction.  
 For degree of protection IP65, use V-M20 (206910) cable glands with connecting thread of max. 9 mm length.

**Technical data**

|                      |  |                 |  |
|----------------------|--|-----------------|--|
| <b>General</b>       |  |                 |  |
| Standards            |  |                 | IEC/EN 60947   |
| Climatic proofing    |  |                 | Damp heat, constant, to IEC 60068-2-78; damp heat, cyclical, to IEC 60068-2-30 |
| Ambient temperature  |  | °C              | -25 - +70  |
| Mounting position    |  |                 | As required  |
| Degree of Protection |  |                 | IP65   |
| Terminal capacities  |  | mm <sup>2</sup> |  |
| Solid                |  | mm <sup>2</sup> | 1 x (0.75 - 2.5)<br>2 x (0.75 - 1.5)   |

|  |                  |                 |                                    |
|--|------------------|-----------------|------------------------------------|
| Flexible with ferrule                    |                  | mm <sup>2</sup> | 1 x (0.5 - 1.5)<br>2 x (0.5 - 1.5) |
| Repetition accuracy                      |                  | mm              | 0.02                               |
| <b>Contacts/switching capacity</b>       |                  |                 |                                    |
| Rated impulse withstand voltage          | U <sub>imp</sub> | V AC            | 6000                               |
| Rated insulation voltage                 | U <sub>i</sub>   | V               | 500                                |
| Overvoltage category/pollution degree    |                  |                 | III/3                              |
| Rated operational current                | I <sub>e</sub>   | A               |                                    |
| <b>AC-15</b>                             |                  |                 |                                    |
| 24 V                                     | I <sub>e</sub>   | A               | 10                                 |
| 220 V 230 V 240 V                        | I <sub>e</sub>   | A               | 6                                  |
| 380 V 400 V 415 V                        | I <sub>e</sub>   | A               | 4                                  |
| <b>DC-13</b>                             |                  |                 |                                    |
| 24 V                                     | I <sub>e</sub>   | A               | 10                                 |
| 110 V                                    | I <sub>e</sub>   | A               | 1                                  |
| 220 V                                    | I <sub>e</sub>   | A               | 0.5                                |
| Supply frequency                         |                  | Hz              | max. 400                           |
| Short-circuit rating to IEC/EN 60947-5-1 |                  |                 |                                    |
| max. fuse                                |                  | A gG/gL         | 6                                  |

### Mechanical variables

|  |              |                   |        |
|--|--------------|-------------------|--------|
| Lifespan, mechanical                                       | Operations   | x 10 <sup>6</sup> | 20     |
| Contact temperature of roller head                         |              | °C                | ≤ 100  |
| Mechanical shock resistance (half-sinusoidal shock, 20 ms) |              |                   |        |
| Standard-action contact                                    |              | g                 | 25     |
| Snap-action contact  |              | g                 | 2      |
| Operating frequency  | Operations/h |                   | ≤ 6000 |

### Actuation

|  |  |     |                                |
|--|--|-----|--------------------------------|
| <b>Mechanical</b>                          |  |     |                                |
| Actuating force at beginning/end of stroke |  | N   | 8.0/20.0                       |
| Actuating torque of rotary drives          |  | Nm  | 0.2                            |
| Max. operating speed with DIN cam          |  | m/s | 1.5                            |
| <b>Notes</b>                               |  |     | for angle of actuation α = 30° |

## Design verification as per IEC/EN 61439

|   |  |    |     |
|---|--|----|-----|
| <b>Technical data for design verification</b> |  |    |     |
| Operating ambient temperature min.            |  | °C | -25 |
| Operating ambient temperature max.            |  | °C | 70  |

## Technical data ETIM 5.0

|   |  |    |                    |
|---|--|----|--------------------|
| <b>Sensors (EG000026) / End switch (EC000030)</b>   |  |    |                    |
| Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Position switch / Position switch (Type 1) (ecl@ss8-27-27-06-01 [AGZ382011]) |  |    |                    |
| Width sensor  |  | mm | 51                 |
| Diameter sensor   |  | mm | 0                  |
| Height of sensor  |  | mm | 51                 |
| Length of sensor  |  | mm | 0                  |
| Rated operation current I <sub>e</sub> at AC-15, 24 V   |  | A  | 10                 |
| Rated operation current I <sub>e</sub> at AC-15, 125 V  |  | A  | 0                  |
| Rated operation current I <sub>e</sub> at AC-15, 230 V  |  | A  | 6                  |
| Rated operation current I <sub>e</sub> at DC-13, 24 V   |  | A  | 10                 |
| Rated operation current I <sub>e</sub> at DC-13, 125 V  |  | A  | 1                  |
| Rated operation current I <sub>e</sub> at DC-13, 230 V  |  | A  | 0.5                |
| Switching function  |  |    | Slow-action switch |
| Output electronic   |  |    | No                 |
| Forced opening  |  |    | Yes                |
| Number of safety auxiliary contacts   |  |    | 1                  |

|   |  |    |              |
|---|--|----|--------------|
| Number of contacts as normally closed contact |  |    | 1            |
| Number of contacts as normally open contact   |  |    | 1            |
| Number of contacts as change-over contact     |  |    | 0            |
| Type of interface                             |  |    | None         |
| Type of interface for safety communication    |  |    | None         |
| Housing according to norm                     |  |    | -            |
| Construction type housing                     |  |    | Cuboid       |
| Material housing                              |  |    | Plastic      |
| Coating housing                               |  |    | -            |
| Type of control element                       |  |    | Rotary lever |
| Alignment of the control element              |  |    | -            |
| Type of electric connection                   |  |    | -            |
| With status indication                        |  |    | No           |
| Suited for safety functions                   |  |    | Yes          |
| Explosion safety category for gas             |  |    | None         |
| Explosion safety category for dust            |  |    | None         |
| Ambient temperature during operating          |  | °C | -25 - 70     |
| Degree of protection (IP)                     |  |    | IP65         |