



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

**Part no.** AT0-11-2-IA/AR  
**Article no.** 078783  
**Catalog No.** AT0-11-2-IA-AR

## Technical data

### General

|                       |  |                 |  |
|-----------------------|--|-----------------|--|
| 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)   |

### Contacts/switching capacity

|  |                  |         |          |
|--|------------------|---------|----------|
| 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       |          |
| AC-15                                    |                  |         |          |
| 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        |
| DC-13                                    |                  |         |          |
| 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        |
| Repetition accuracy                      |                  | mm      | 0.02     |

### 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

|  |  |     |                                    |
|--|--|-----|------------------------------------|
| Mechanical                                 |  |     |                                    |
| Actuating force at beginning/end of stroke |  | N   | 1.0/8.0                            |
| Actuating torque of rotary drives          |  | Nm  | 0.2                                |
| Max. operating speed with DIN cam          |  | m/s | 1                                  |
| <b>Notes</b>                               |  |     | for angle of actuation α = 30°/45° |

## Design verification as per IEC/EN 61439

|  |                  |   |      |
|--|------------------|---|------|
| Technical data for design verification                   |                  |   |      |
| Rated operational current for specified heat dissipation | I <sub>n</sub>   | A | 6    |
| Heat dissipation per pole, current-dependent             | P <sub>vid</sub> | W | 0.13 |

|  |                   |    |  |
|--|-------------------|----|--|
| Equipment heat dissipation, current-dependent  | P <sub>vid</sub>  | W  | 0  |
| Static heat dissipation, non-current-dependent   | P <sub>vs</sub>   | W  | 0  |
| Heat dissipation capacity  | P <sub>diss</sub> | W  | 0  |
| Operating ambient temperature min.   |                   | °C | -25  |
| Operating ambient temperature max.   |                   | °C | 70   |
| IEC/EN 61439 design verification   |                   |    |  |
| 10.2 Strength of materials and parts   |                   |    |  |
| 10.2.2 Corrosion resistance  |                   |    | Meets the product standard's requirements.   |
| 10.2.3.1 Verification of thermal stability of enclosures   |                   |    | Meets the product standard's requirements.   |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat   |                   |    | Meets the product standard's requirements.   |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects |                   |    | Meets the product standard's requirements.   |
| 10.2.4 Resistance to ultra-violet (UV) radiation   |                   |    | Meets the product standard's requirements.   |
| 10.2.5 Lifting   |                   |    | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.2.6 Mechanical impact   |                   |    | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.2.7 Inscriptions  |                   |    | Meets the product standard's requirements.   |
| 10.3 Degree of protection of ASSEMBLIES  |                   |    | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.4 Clearances and creepage distances   |                   |    | Meets the product standard's requirements.   |
| 10.5 Protection against electric shock   |                   |    | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.6 Incorporation of switching devices and components   |                   |    | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.7 Internal electrical circuits and connections  |                   |    | Is the panel builder's responsibility.   |
| 10.8 Connections for external conductors   |                   |    | Is the panel builder's responsibility.   |
| 10.9 Insulation properties   |                   |    |  |
| 10.9.2 Power-frequency electric strength   |                   |    | Is the panel builder's responsibility.   |
| 10.9.3 Impulse withstand voltage   |                   |    | Is the panel builder's responsibility.   |
| 10.9.4 Testing of enclosures made of insulating material   |                   |    | Is the panel builder's responsibility.   |
| 10.10 Temperature rise   |                   |    | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating   |                   |    | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| 10.12 Electromagnetic compatibility  |                   |    | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| 10.13 Mechanical function  |                   |    | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |

## Technical data ETIM 6.0

Sensors (EG000026) / End switch (EC000030)

Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Position switch / Position switch (Type 1) (ecl@ss8.1-27-27-06-01 [AGZ382012])

|  |    |                    |
|--|----|--------------------|
| 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                    |  |    | Square roller lever |
| Alignment of the control element           |  |    | -                   |
| Type of electric connection                |  |    | -                   |
| With status indication                     |  |    | No                  |
| Suitable 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                |