

Part no. Article no.

Catalog No.

Position switch, 1N/0+1N/C, wide, IP65\_x, roller plunger

AT0-11-1-IA/RS 045561 AT0-11-1-IA-RS



| 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                                   | Ui               | V                 | 500                                                                            |
| Overvoltage category/pollution degree                      |                  |                   | 111/3                                                                          |
| Rated operational current                                  | le               | А                 |                                                                                |
| AC-15                                                      |                  |                   |                                                                                |
| 24 V                                                       | Ι <sub>e</sub>   | А                 | 10                                                                             |
| 220 V 230 V 240 V                                          | le               | А                 | 6                                                                              |
| 380 V 400 V 415 V                                          | le               | А                 | 4                                                                              |
| DC-13                                                      |                  |                   |                                                                                |
| 24 V                                                       | Ι <sub>e</sub>   | A                 | 10                                                                             |
| 110 V                                                      | Ι <sub>e</sub>   | A                 | 1                                                                              |
| 220 V                                                      | Ι <sub>e</sub>   | А                 | 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                                                                           |
| Aechanical variables                                       |                  |                   |                                                                                |
| ifespan, mechanical                                        | Operations       | x 10 <sup>6</sup> | 20                                                                             |
| Contact temperature of roller head                         |                  | °C                | ≦ <sub>100</sub>                                                               |
| Nechanical shock resistance (half-sinusoidal shock, 20 ms) |                  |                   |                                                                                |
| Standard-action contact                                    |                  | g                 | 25                                                                             |
| Snap-action contact                                        |                  | g                 | 2                                                                              |
| Operating frequency                                        | Operations/h     |                   | ≦ 6000                                                                         |
| Actuation                                                  |                  |                   |                                                                                |
| Vechanical                                                 |                  |                   |                                                                                |
| Actuating force at beginning/end of stroke                 |                  | Ν                 | 1.0/8.0                                                                        |
| Actuating torque of rotary drives                          |                  | Nm                | 0.2                                                                            |
| Max. operating speed with DIN cam                          |                  | m/s               | 1/1                                                                            |
| Notes                                                      |                  |                   | for angle of actuation $\alpha = 0^{\circ}/30^{\circ}$                         |

## Data for design verification according to IEC/EN 61439

| Technical data for design verification                 |                |   |    |
|--------------------------------------------------------|----------------|---|----|
| Rated operational current AC-15 at 220 V, 230 V, 240 V | l <sub>e</sub> | А | 6  |
| Rated operational current at 24 V                      | l <sub>e</sub> | А | 10 |
| 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 5.0**

## Sensors (EG000026) / End switch (EC000030)

| JAC232011)         Vidta soor         Image Source S  |                                                                                                                                                                                                           | Sensors (Edobolozo) / End Switch (ECobolozo) |                    |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------|--|--|--|
| nets         nets           Height of sensor         nm         5           Langth of sensor         nm         0           Rated operation current le at AC-15,24 V         A         0           Rated operation current le at AC-15,250 V         A         0           Rated operation current le at AC-13,125 V         A         0           Rated operation current le at DC-13,24 V         A         0           Rated operation current le at DC-13,24 V         A         0           Rated operation current le at DC-13,24 V         A         0           Rated operation current le at DC-13,24 V         A         0           Statch operation current le at DC-13,24 V         A         0           Statch operation current le at DC-13,24 V         A         0           Statch operation current le at DC-13,24 V         A         0           Statch operation current le at DC-13,24 V         A         0           Statch operation current le at DC-13,24 V         A         0           Number of contacts as normally closed contact         A         No           Statch operation current le at DC-13,24 V         A         0           Number of contacts as normally closed contact         No         No           Number of contacts as normally                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 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]) |                                              |                    |  |  |  |
| Height of sensornmiLength of sensornm0Rated operation current le at AC-15, 25 VA0Rated operation current le at AC-15, 25 VA0Rated operation current le at DC-13, 24 VCARated operation current le at DC-13, 25 VA0Rated operation current le at DC-13, 25 VA0Rated operation current le at DC-13, 25 VA0Switching functionA0Opput electronicA0Output electronicANon-action switchCollectronicANon-action switchNumber of catest as normally closed contactA1Number of contacts as normally closed contactANon-actionType of interfaceANon-actionNumber of contacts as change-over contactANon-actionType of interfaceANon-actionConstruction to homingANon-actionConstruction to homingANon-actionType of control elementANon-actionAtticial housingANon-actionConstruction to housingANon-actionAtticial housingANon-actionAtticial housingANon-ActionAtticial housingANon-ActionAtticial housingANon-ActionAtticial housingANon-ActionAtticial housingANon-ActionAtticial housingANon-ActionAtticial housingA </td <td>Width sensor</td> <td>mm</td> <td>51</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Width sensor                                                                                                                                                                                              | mm                                           | 51                 |  |  |  |
| Interprise         Interprise         Interprise           Rated operation current le at AC-15, 25 V         A         0           Rated operation current le at AC-15, 25 V         A         0           Rated operation current le at AC-15, 230 V         A         0           Rated operation current le at DC-13, 24 V         A         0           Rated operation current le at DC-13, 25 V         A         0           Switching function         B         0         0           Switching function         B         0         0           Output electronic         A         0         0           Foreed opening         A         0         0           Number of contacts as normally closed contact         A         0         0           Number of contacts as change-over contact         A         0         0           Number of contacts as change-over contact         A         0         0           Number of contacts as change-over contact         A         0         0           Number of contacts as change-over contact         A         0         0           Number of contacts as change-over contact         A         0         0           Number of contacts as change-over contact         None         0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Diameter sensor                                                                                                                                                                                           | mm                                           | 0                  |  |  |  |
| Action         Action         Control           Rated operation current le at AC-15, 25 V         Action         Control           Rated operation current le at AC-15, 230 V         Action         Control           Rated operation current le at DC-13, 25 V         Action         Control           Switching function         Solow-action switch         Solow-action switch           Output electronic         Solow-action switch         Solow-action switch           Suber of safety auxiliary contacts         Solow-action switch         Solow-action switch           Number of contacts as onsmally closed contact         Solow-action switch         Solow-action switch           Number of contacts as change-over contact         Solow-action switch         Solow-action switch           Number of contacts as change-over contact         Solow-action switch         Solow-action switch           Number of contacts as change-over contact         Solow-action switch         Solow-action switch           Number of contacts as change-over contact         Solow-action switch         Solow-action switch           Number of contacts as change-over contact         Solow-action switch         Solow-action switch           Number of contacts as change-over contact         Solow-action switch         Solow-action switch           Number of contacts as change-over contact         Solow-action switch<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Height of sensor                                                                                                                                                                                          | mm                                           | 51                 |  |  |  |
| Alted operation current let At-15,125 V       A       0         Bated operation current let At-15,230 V       A       0         Bated operation current let Dt-13,24 V       A       0         Bated operation current let Dt-13,250 V       A       0         Bated operation current let Dt-13,230 V       A       0         Output electronic       M       0       0         Output electronic       Y       Non-action switch       Non-action switch         Number of safety auxiliary contacts       Y       Non-Action Switch       Non-Action Switch         Number of contacts as normally closed contact       Y       Non-Action Switch       Non-Action Switch         Number of contacts as change-over contact       Y       Non-Action Switch       Non-Action Switch         Number of contacts as change-over contact       Y       Non-Action Switch       Non-Action Switch         Number of contacts as change-over contact       Non-Action Switch       Non-Action Switch       Non-Action Switch         Startion to y       Non-Action Switch       Non-Action Switch       Non-Action Switch       Non-Action Switch         Startion to y       Non-Action Switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Length of sensor                                                                                                                                                                                          | mm                                           | 0                  |  |  |  |
| Rated operation current le at AC-15, 230 V       A       6         Rated operation current le at DC-13, 24 V       A       0         Rated operation current le at DC-13, 250 V       A       0         Switching function       Now-action switch       Now-action switch         Output electronic       V       Now-action switch         Dutput electronic       V       Now-action switch         Number of safety auxiliary contacts       V       Now-action switch         Number of contacts as normally closed contact       V       Now-action switch         Number of contacts as change-over contact       V       Now-action support         Number of contacts as change-over contact       V       Now-action support         Type of interface       Now-action support       Now-action support         Reterial housing       V       Now-action support         Construction type housing       V       Now-action support         Cotarig housing       V       Palsic         Cotarig housing       V       Now-action support         Type of control element       Now-action support       Support         Atterial housing       V       Palsic       Support         Cotarig housing       V       Nowenton       Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Rated operation current le at AC-15, 24 V                                                                                                                                                                 | А                                            | 10                 |  |  |  |
| Rated operation current le at DC-13, 24 V       A       0         Rated operation current le at DC-13, 25 V       A       1         Rated operation current le at DC-13, 230 V       A       0.5         Switching function       Sow action switch       Sow action switch         Output electronic       Y       No         Force opening       Y       No         Number of safety auxiliary contacts       Y       No         Number of contacts as normally closed contact       Y       No         Number of contacts as normally open contact       Y       No         Ype of interface       Y       No         Number of contacts as normally open contact       Y       No         Ype of interface       Y       No         Ype of interface for safety communication       Y       No         Number of contacts as normally open contact       Y       No         Ype of interface for safety communication       Y       No         Number of contact sa schange-over contact       Y       No         No schange       Y       No         Startion to morm       S       No         Startion to morm       S       No         Startion to morm       S       No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Rated operation current le at AC-15, 125 V                                                                                                                                                                | А                                            | 0                  |  |  |  |
| Rated operation current le at DC-13, 125 V       A       I         Rated operation current le at DC-13, 230 V       B       D         Switching function       I       Sow-action switch         Output electronic       I       Sow-action switch         Forced opening       V       No         Number of safety suikliary contacts       I       I         Number of contacts as normally closed contact       I       I         Number of contacts as normally closed contact       I       I         Number of contacts as normally closed contact       I       I         Number of contacts as normally closed contact       I       I         Number of contacts as normally closed contact       I       I         Number of contacts as normally closed contact       I       I         Number of contacts as normally closed contact       I       I         Number of contacts as normally closed contact       I       I         Number of contacts as normally closed contact       I       I         Number of contacts as normally closed contact       I       I         Number of contacts as normally closed contact       I       I         Number of contacts as normally closed contact       I       I         Number of to react (set as norma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rated operation current le at AC-15, 230 V                                                                                                                                                                | А                                            | 6                  |  |  |  |
| Alead operation current le at DC-13, 230 V         Solutation cu                                                                                                                                                                                                                                                                                                                    | Rated operation current le at DC-13, 24 V                                                                                                                                                                 | А                                            | 10                 |  |  |  |
| Switching function         Solve-action switch           Output electronic         No           Forced opening         Ves           Number of safety auxiliary contacts         I           Number of contacts as normally closed contact         I           Number of contacts as normally copen contact         I           Number of contacts as normally copen contact         I           Number of contacts as normally copen contact         I           Number of contacts as change-over contact         I           Type of interface         None           Type of interface         None           Rusing according to norm         I           Construction type housing         I           Material housing         I           Conting function         I           Quitted function         I           Solution type found         I           Rusing according to norm         I           Construction type housing         I           Conting function         I           Conting housing         I           Conting housing         I           Type of control element         I           Alignment of the control element         I <td>Rated operation current le  at DC-13, 125 V</td> <td>А</td> <td>1</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Rated operation current le  at DC-13, 125 V                                                                                                                                                               | А                                            | 1                  |  |  |  |
| 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         None           Type of interface for safety communication         1           Notartion type housing         Cuboid           Notartion type housing         Plastic           Coating housing         I           Type of control element         I           Alignment of the control element         I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Rated operation current le at DC-13, 230 V                                                                                                                                                                | А                                            | 0.5                |  |  |  |
| 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       None         Number of contact set of safety communication       1         None       1         Construction type housing       Cobid         Name       None         Cotating housing       1         Type of control element       I         Alignment of the control element       I         Alignment of the contro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Switching function                                                                                                                                                                                        |                                              | Slow-action switch |  |  |  |
| Number of safety auxiliary contacts       I         Number of contacts as normally closed contact       I         Number of contacts as normally open contact       I         Number of contacts as change-over contact       I         Number of contacts as change-over contact       I         Type of interface       None         Number of safety communication       I         Number of safety communication       I         Rousing according to norm       I         Construction type housing       I         Material housing       I         Cotating housing       I         Type of control element       I         Alignment of the control element       I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Output electronic                                                                                                                                                                                         |                                              | No                 |  |  |  |
| Number of contacts as normally closed contact       I         Number of contacts as normally open contact       I         Number of contacts as change-over contact       I         Type of interface       I         Type of interface for safety communication       I         Housing according to norm       I         Construction type housing       I         Construction type housing       I         Coting housing       I         Coting housing       I         Type of control element       I         Alignment of the control element       I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Forced opening                                                                                                                                                                                            |                                              | Yes                |  |  |  |
| Number of contacts as normally open contact       I       I         Number of contacts as change-over contact       I       I         Type of interface       I       I         Type of interface for safety communication       I       I         Housing according to norm       I       I         Construction type housing       I       I         Material housing       I       I         Coating housing       I       I         Type of control element       I       I         Alignment of the control element       I       I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Number of safety auxiliary contacts                                                                                                                                                                       |                                              | 1                  |  |  |  |
| Number of contacts as change-over contact       Image: State S | Number of contacts as normally closed contact                                                                                                                                                             |                                              | 1                  |  |  |  |
| Type of interface         None           Type of interface for safety communication         Mone           Housing according to norm         Image: Communication           Construction type housing         Image: Communication           Material housing         Image: Communication           Coating housing         Image: Communication           Type of control element         Image: Communication                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Number of contacts as normally open contact                                                                                                                                                               |                                              | 1                  |  |  |  |
| Type of interface for safety communication       Image: Safety communication       None         Housing according to norm       Image: Safety communication       Image: Safety communication         Construction type housing       Image: Safety communication       Image: Safety communication         Material housing       Image: Safety communication       Image: Safety communication         Coating housing       Image: Safety communication       Image: Safety communication         Type of control element       Image: Safety communication       Image: Safety communication         Alignment of the control element       Image: Safety communication       Image: Safety communication                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Number of contacts as change-over contact                                                                                                                                                                 |                                              | 0                  |  |  |  |
| Housing according to norm     Image: Construction type housing     -       Construction type housing     Image: Construction type housing     Cobid       Material housing     Image: Construction type housing     Plastic       Coating housing     Image: Construction type housing     -       Type of control element     Image: Construction type housing     Roller cam                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Type of interface                                                                                                                                                                                         |                                              | None               |  |  |  |
| Construction type housing     Material housing     Cuboid       Material housing     Plastic       Coating housing     Image: Cuboid       Type of control element     Image: Cuboid       Alignment of the control element     Image: Cuboid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Type of interface for safety communication                                                                                                                                                                |                                              | None               |  |  |  |
| Material housing     Material housing       Coating housing     Image: Coating housing       Type of control element     Image: Coating housing       Alignment of the control element     Image: Coating housing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Housing according to norm                                                                                                                                                                                 |                                              | ·                  |  |  |  |
| Coating housing     Image: Coating housing     Image: Coating housing     Image: Coating housing       Type of control element     Image: Coating housing     Image: Coating housing       Alignment of the control element     Image: Coating housing     Image: Coating housing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Construction type housing                                                                                                                                                                                 |                                              | Cuboid             |  |  |  |
| Type of control element     Roller cam       Alignment of the control element     Image: Control element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Material housing                                                                                                                                                                                          |                                              | Plastic            |  |  |  |
| Alignment of the control element -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Coating housing                                                                                                                                                                                           |                                              |                    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Type of control element                                                                                                                                                                                   |                                              | Roller cam         |  |  |  |
| Type of electric connection -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 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     |

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