

**Compensating actuator, angled**

**Part no.** LS-XNW-ZBZ  
**Catalog No.** 106835  
**Alternate Catalog No.** LS-XNW-ZBZ  
**EL-Nummer (Norway)** 4356188

**Delivery program**

|                                                            |  |  |                                                                  |
|------------------------------------------------------------|--|--|------------------------------------------------------------------|
| Basic function                                             |  |  | actuators                                                        |
| Part group reference                                       |  |  | LS...ZBZ/X                                                       |
| Function                                                   |  |  | Angled compensating actuator                                     |
| Description                                                |  |  | With increased tolerance in closing direction<br>Stainless steel |
| For use with                                               |  |  | doors that do not close precisely                                |
| <b>Notes</b> for combination with LS...ZBZ/X basic devices |  |  |                                                                  |

**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 |
| Mounting position     |  |                 | As required                                                                    |
| 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                                                                           |

**Contacts/switching capacity**

|                                          |                  |         |          |
|------------------------------------------|------------------|---------|----------|
| Rated impulse withstand voltage          | U <sub>imp</sub> | V AC    | 4000     |
| Rated insulation voltage                 | U <sub>i</sub>   | V       | 400      |
| Overvoltage category/pollution degree    |                  |         | III/3    |
| Rated operational current                | I <sub>e</sub>   | A       |          |
| AC-15                                    |                  |         |          |
| 24 V                                     | I <sub>e</sub>   | A       | 6        |
| 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       | 3        |
| 110 V                                    | I <sub>e</sub>   | A       | 0.8      |
| 220 V                                    | I <sub>e</sub>   | A       | 0.3      |
| Supply frequency                         |                  | Hz      | max. 400 |
| Short-circuit rating to IEC/EN 60947-5-1 |                  |         |          |
| max. fuse                                |                  | A gG/gL | 6        |

**Mechanical variables**

|                                                            |              |   |       |
|------------------------------------------------------------|--------------|---|-------|
| Mechanical shock resistance (half-sinusoidal shock, 20 ms) |              |   |       |
| Standard-action contact                                    |              | g | 10    |
| Operating frequency                                        | Operations/h |   | ≅ 800 |

**Actuation**

|                                                     |  |   |      |
|-----------------------------------------------------|--|---|------|
| Mechanical                                          |  |   |      |
| Mechanical holding force acc. to GS-ET-19 (04/2004) |  |   |      |
| XG, XW, XNG                                         |  | N | 1700 |
| XWA, XFG, XF                                        |  | N | 1600 |
| XNW                                                 |  | N | 1200 |
| Electromechanical                                   |  |   |      |
| For magnet                                          |  |   |      |

|                             |  |                  |            |
|-----------------------------|--|------------------|------------|
| Power consumption           |  |                  |            |
| at 120 V AC                 |  | VA               | 8          |
| at 24 V DC                  |  | W                | 8          |
| Pick-up and drop-out values |  | x U <sub>s</sub> | 0.85 - 1.1 |
| Magnet duty factor          |  | % ED             | 100        |

## Design verification as per IEC/EN 61439

|                                                                                                                        |                   |    |                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------|-------------------|----|----------------------------------------------------------------------------------------------------------|
| Technical data for design verification                                                                                 |                   |    |                                                                                                          |
| Rated operational current for specified heat dissipation                                                               | I <sub>n</sub>    | A  | 0                                                                                                        |
| Heat dissipation per pole, current-dependent                                                                           | P <sub>vid</sub>  | W  | 0                                                                                                        |
| 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 | 40                                                                                                       |
| 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                                                                       |                   |    | Please enquire                                                                                           |
| 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                                                                                                 |                   |    | Not applicable.                                                                                          |
| 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. |

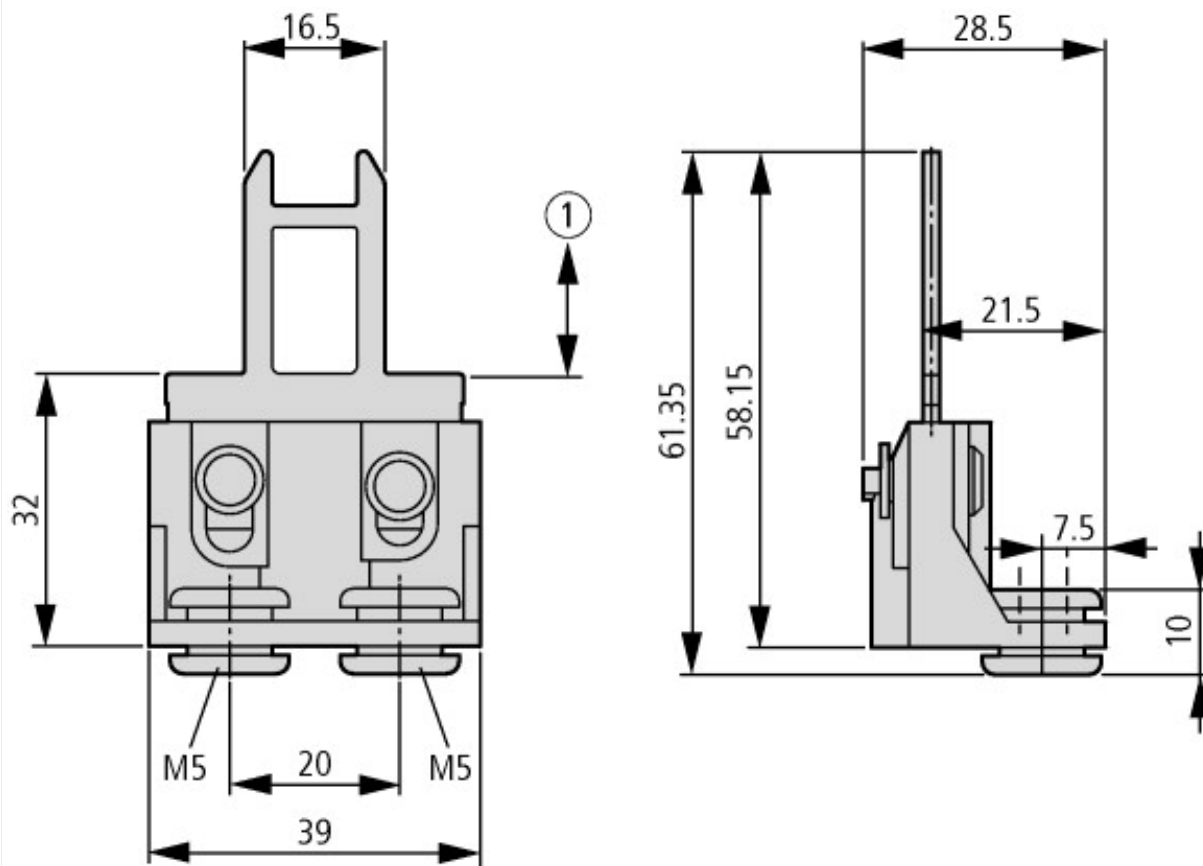
## Technical data ETIM 7.0

|                                                                                                                                                                                                                                          |  |  |                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|---------------------------------|
| Sensors (EG000026) / Actuator for position switch with separate actuator (EC001487)                                                                                                                                                      |  |  |                                 |
| Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Position switch / Actuator for position switch with separate actuator (ec@ss10.0.1-27-27-06-05 [BAA078012]) |  |  |                                 |
| Model                                                                                                                                                                                                                                    |  |  | Actuator with vertical mounting |

## Approvals

|                             |  |  |                                                      |
|-----------------------------|--|--|------------------------------------------------------|
| Product Standards           |  |  | IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14; CE marking |
| UL File No.                 |  |  | E29184                                               |
| UL Category Control No.     |  |  | NKCR                                                 |
| CSA File No.                |  |  | 12528                                                |
| CSA Class No.               |  |  | 3211-03                                              |
| North America Certification |  |  | UL listed, CSA certified                             |

## Dimensions



Fixing only allowed with M5 fixing screw and washer according to DIN EN ISO 7093

① Distance to device head = 0.1 ... 3.0 mm

