

Position switch, 2 N/C, rounded plunger

| Part no.    | LS- |
|-------------|-----|
| Article no. | 266 |

-02 6107



Catalog No.

LS-02

## **Delivery programme**

| Basic function Particle productions witchines   Part group reference LSMM   Product range Rounded glunger   Product range Poil   Product range Poil <td< th=""><th></th><th></th><th></th></td<>   |   |  |  |
|--|---|--|--|
| Product range   Product range<   | Basic function  |  |  |
| Protection type <td< td=""><td>Part group reference</td><td></td><td>LS(M)</td></td<>  | Part group reference  |  | LS(M)  |
| Fractures Andbeint temperature Control Saise device, expandable   Ambient temperature 25 - 70   Control 26 - 27   Note - Normally closed Image: Saise device, expandable   Note - Normally closed Image: Saise device, expandable   Control transmerter Image: Saise device, expandable   Positive opening (ZW) Image: Saise device, expandable   Control transmerter Image: Saise device, expandable   Positive opening (ZW) Image: Saise device, expandable   Control transmerter Image: Saise device, expandable   Reusing Image: Saise device, expandable  | Product range   |  | Rounded plunger  |
| Ambient temperature   -25 - 170     Contacts   2NC ©     Notes   2NC ©     Notes   ©   | Protection type   |  | IP66, IP67   |
| Contacts   Image: Contact Sequence   Image: Contact Sequence <thimage: contact="" sequence<="" th="">   Ima</thimage:>   | Features  |  | Basic device, expandable   |
| MC = Normely closed   ZNC I   ZNC I     Notes   Image: Sequence   Image:   | Ambient temperature   | °C   | -25 - +70  |
| Notas   Image: State S | Contacts  |  |  |
| Contact sequence   Image: Sequence   Image: Sequence   Image: Sequence     Contact travel = Contact closed = Contact open   Image: Sequence   Image: Sequence   Image: Sequence     Positive opening (ZV)   Image: Sequence   Image: Sequence   Image: Sequence   Image: Sequence     Positive opening (ZV)   Image: Sequence   Image: Seque: Sequence   Image: Sequence<  | N/C = Normally closed   |  | 2 NC \varTheta   |
| Contact sequence   Image: Sequence   Image: Sequence   Image: Sequence     Contact trave = Contact closed = Contact open   Image: Sequence   Image: Sequence   Image: Sequence     Positive opening (ZV)   Image: Sequence   Image: Sequence   Image: Sequence   Image: Sequence     Positive opening (ZV)   Image: Sequence   Image: Seque: Sequence   Image: Sequence </td <td>Notes</td> <td></td> <td><math>\Theta</math> = safety function, by positive opening to IEC/EN 60947-5-1</td>  | Notes   |  | $\Theta$ = safety function, by positive opening to IEC/EN 60947-5-1                |
| Positive opening (ZW)   yes     Colour   yes     Enclosure covers   Vellow     Enclosure covers   Vellow     Enclosure covers   Vellow     Colour   Image: Comparison of the comparison o  | Contact sequence  |  |  |
| Colour   Inclosure covers   Yellow     Enclosure covers   Image: Control C   | Contact travel = Contact closed = Contact open  |  | 11-12 NC<br>21-22 NC<br>3.0  |
| Enclosure covers   Yellow     Enclosure covers   Image: Comparison of the constant of t  | Positive opening (ZW)   |  | yes  |
| Enclosure covers   Image: Comp Control No.     Housing   Image: Comp Control No.     Notes   Image: Comp Control No.     Product Standards   Image: Comp Control No.     UL Category Control No.   Image: Comp Control No.     CSA Class No.   North America Certification     Derived Protection   Image: Comp Control No.     CSA Class No.   Nick NCCR     North America Certification   Image: Comp Control No.     CSA Class No.   UL Stadards     UL Category Control No.   Image: Comp Control No.     CSA Class No.   Nick NCCR     North America Certification   Image: Control No.     Degree of Protection   Image: Control No.     CSA Class No.   UL Stadards     UL Stadards   Image: Control No.     CSA Class No.   UL Stadards     UL Stadards   Image: Control No.     CSA Class No.   UL Stadards     UL Stadards   Image: Control No.     CSA Class No.   Image: Control No.     <  | Colour  |  |  |
| Housing   Insulated material     Connection type   Cage Clamp     Notes   Cage Clamp is a registered trademark of Wago Kontakttechnik, 32432     Minden, Germany.   Cage Clamp is a registered trademark of Wago Kontakttechnik, 32432     Minder, Germany.   Cage Clamp is a registered trademark of Wago Kontakttechnik, 32432     Minder, Germany.   Cage Clamp is a registered trademark of Wago Kontakttechnik, 32432     Minder, Germany.   Cage Clamp is a registered trademark of Wago Kontakttechnik, 32432     Minder, Germany.   Cage Clamp is a registered trademark of Wago Kontakttechnik, 32432     Minder, Germany.   Cage Clamp is a registered trademark of Wago Kontakttechnik, 32432     Minder, Germany.   Cage Clamp is a registered trademark of Wago Kontakttechnik, 32432     Visited, Sak os   Sige Class No.     Noth America Certification   291143     UL listed, CSA certified   12528     Sca Class No.   NCR     Noth America Certification   UL listed, CSA certified     Degree of Protection   UL listed, CSA certified     Standards   EC/EN 60947     Standards   EC/EN 60947     Olimatic proofing   Damp heat, constant, to IEC 60068-2-78; damp heat, coglical, to IEC   | Enclosure covers  |  | Yellow   |
| Connection type   Cage Clamp     Notes   Cage-Clamp is a registered trademark of Wago Kontakttechnik, 32432<br>Minden, Germany.<br>Accessories for the Cage-Clamp terminals from Wago:power comb,<br>gray, Wago Article No. 264-402     Approvals<br>Product Standards<br>UL File No.<br>UL File No.<br>CSA File No.<br>CSA File No.<br>CSA File No.<br>CSA File No.<br>UL Category Control No.<br>CSA File No.<br>CSA File No.<br>CSA File No.<br>CSA File No.<br>UL Listed, CSA certified<br>Degree of Protection   IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14; CE marking<br>E29184<br>NKCR<br>S2211-03<br>UL Listed, CSA certified<br>UL Listed, CSA certified<br>IEC: IP66, 67, UL/CSA Type 3R, 4X (indoor use only), 12, 13     General   IEC/EN 60947     Standards   IEC/EN 60947     Climatic proofing   Damp heat, constant, to IEC 60068-2-78; damp heat, cyclical, to IEC  | Enclosure covers  |  |  |
| Notes   Cage-Clamp is a registered trademark of Wago Kontakttechnik, 32432     Minden, Germany.   Accessories for the Cage-Clamp terminals from Wago:power comb, gray, Wago Article No. 264-402     Approvals   IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14; CE marking     Product Standards   IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14; CE marking     UL Category Control No.   E29184     CSA File No.   12528     CSA File No.   12528     CSA Class No.   3211-03     North America Certification   UL listed, CSA certified     Degree of Protection   IEC/EN 60947     Standards   IEC/EN 60947     Climatic proofing   Demp heat, constant, to IEC 60068-2-78; damp heat, cyclical, to IEC   | Housing   |  | Insulated material   |
| Notes   Cage-Clamp is a registered trademark of Wago Kontakttechnik, 32432     Minden, Germany.   Accessories for the Cage-Clamp terminals from Wago:power comb, gray, Wago Article No. 264-402     Vpprovals   IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14; CE marking     UL File No.   E29184     VL Category Control No.   IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14; CE marking     CSA File No.   12528     CSA File No.   3211-03     North America Certification   UL listed, CSA certified     Degree of Protection   IEC/EN 60947     IEC/EN 60947     Standards     Climatic proofing   IEC/EN 60947  | Connection type   |  | Cage Clamp   |
| 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     Degree of Protection   IEC: IP66, 67, UL/CSA Type 3R, 4X (indoor use only), 12, 13     General     Standards     Climatic proofing   IEC/EN 60947   | Notes   |  | Minden, Germany.<br>Accessories for the Cage-Clamp terminals from Wago:power comb, |
| Standards IEC/EN 60947   Climatic proofing Damp heat, constant, to IEC 60068-2-78; damp heat, cyclical, to IEC   | Product Standards<br>UL File No.<br>UL Category Control No.<br>CSA File No.<br>CSA Class No.<br>North America Certification | E29184<br>NKCR<br>12528<br>3211-03<br>UL listed, | CSA certified  |
| Climatic proofing Damp heat, constant, to IEC 60068-2-78; damp heat, cyclical, to IEC  | General   |  |  |
|  |   |  | IEC/EN 60947   |
|  | Climatic proofing   |  |  |

Ambient temperature

Mounting position

°C

-25 - +70

As required

| Protection type  |                  |                      | IP66, IP67   |
|--|------------------|----------------------|--|
| Terminal capacities  |                  | mm <sup>2</sup>      |  |
| Solid  |                  | mm <sup>2</sup>      | 1 x (0.5 - 2.5)  |
| Flexible with ferrule                                      |                  | mm <sup>2</sup>      | 1 x (0.5 - 1.5)  |
| Contacts/switching capacity                                |                  |                      |  |
| Rated impulse withstand voltage                            | U <sub>imp</sub> | V                    | 4000   |
|  |                  | AC                   |  |
| Rated insulation voltage                                   | Ui               | V                    | 400  |
| Overvoltage category/pollution degree                      |                  |                      | 11/3   |
| Rated operational current                                  | l <sub>e</sub>   | А                    |  |
| AC-15  |                  |                      |  |
| 24 V   | Ι <sub>e</sub>   | А                    | 6  |
| 220 V 230 V 240 V  | l <sub>e</sub>   | А                    | 6  |
| 380 V 400 V 415 V  | l <sub>e</sub>   | А                    | 4  |
| DC-13  |                  |                      |  |
| 24 V   | l <sub>e</sub>   | А                    | 3  |
| 110 V  | l <sub>e</sub>   | А                    | 0.6  |
| 220 V  | l <sub>e</sub>   | А                    | 0.3  |
| Control circuit reliability                                |                  |                      |  |
| at 24 V DC/5 mA  | H <sub>F</sub>   | Fault                | < 10 <sup>-7</sup> , < 1 fault in 107 operations<br>lity                   |
|  |                  |                      |  |
| at 5 V DC/1 mA   | H <sub>F</sub>   | Fault<br>probabi     | < 10 <sup>-6</sup> , < 1 failure at 5 x 10 <sup>6</sup> operations<br>lity |
| Supply frequency   |                  | Hz                   | max. 400   |
| Short-circuit rating to IEC/EN 60947-5-1                   |                  |                      |  |
| max. fuse  |                  | A<br>«C/             | 6  |
|  |                  | gG/<br>gL            |  |
| Repetition accuracy  |                  | mm                   | 0.15   |
| Rated conditional short-circuit current                    |                  | kA                   | 1  |
| Mechanical variables                                       |                  |                      |  |
| Lifespan, mechanical                                       | Operations       | x<br>10 <sup>6</sup> | 8  |
| Contact temperature of roller head                         |                  | °C                   | ≦ <sub>100</sub>   |
| Mechanical shock resistance (half-sinusoidal shock, 20 ms) |                  |                      |  |
| Standard-action contact                                    |                  | g                    | 25   |
| Operating frequency  | Operations/<br>h |                      | ≦ <sub>6000</sub>  |
| Actuation  |                  |                      |  |
| Mechanical   |                  |                      |  |
| 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                  | 1/0.5  |
| Notes  |                  |                      | for angle of actuation $\alpha = 0^{\circ}/30^{\circ}$                     |

## **Technical data ETIM 5.0**

| 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@ss8-27-27-06-01 [AGZ382011]) |    |      |  |
| Width sensor  | mm | 31   |  |
| Diameter sensor   | mm | 0    |  |
| Height of sensor  | mm | 61   |  |
| Length of sensor  | mm | 33.5 |  |
| Rated operation current le at AC-15, 24 V   | А  | 6    |  |
| Rated operation current le at AC-15, 125 V  | А  | 6    |  |
| Rated operation current le at AC-15, 230 V  | А  | 6    |  |
| Rated operation current le at DC-13, 24 V   | А  | 3    |  |

| Rated operation current le at DC-13, 125 V    | А  | 0.8                |
|---|----|--------------------|
| Rated operation current le at DC-13, 230 V    | А  | 0.3                |
| Switching function                            |    | Slow-action switch |
| Output electronic                             |    | No                 |
| Forced opening                                |    | Yes                |
| Number of safety auxiliary contacts           |    | 2                  |
| Number of contacts as normally closed contact |    | 2                  |
| Number of contacts as normally open contact   |    | 0                  |
| 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                       |    | Plunger            |
| 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)                     |    | IP67               |

## Dimensions



