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LS-11/P - Position switch, Roller plunger, Complete unit, 1 NO, 1 NC, Cage Clamp, Yellow, Insulated material, -25 - +70 °C, EN 50047 Form C



266112 LS-11/P

Overview Specifications Resources



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Technical data ETIM 7.0

Approvals

Dimensions

266112 LS-11/P

Position switch, Roller plunger, Complete unit, 1 N/O, 1 NC, Cage Clamp, Yellow, Insulated material, -25 - +70 °C, EN 50047 Form C Alternate Catalog No.

EL-Nummer (Norway) 4356123

Position switch, Basic function: Position switches, Safety position switches, Part group reference: LS(M)-..., Product range: Roller plunger, Degree of Protection: IP66, IP67, Features: Complete unit, Ambient temperature: -25 - +70 °C, Design: BN 50047 Form C, Contacts N/O = Normally open: 1 N/O, Contacts N/C = Normally closed: 1 NC, Notes: = safety function, by positive opening to IEC/EN 60947-5-1, Positive opening (ZW): yes, Colour Enclosure covers: Yellow, Housing: Insulated material, Connection type: Cage Clamp, Cage-Clamp is a registered trademark of Wago Kontakttechnik, 32432 Mnden, Germany., Accessories for the Cage-Clamp terminals from Wago:power comb, gray, Wago Article No. 264-402, Standards: IEC/EN 60947

Delivery program

Basic function

Position switches

Safety position switches Part group reference

LS(M)-...

Product range

Roller plunger

Degree of Protection

IP66, IP67

Features Complete unit

Ambient temperature

-25 - +70 °C

Design

EN 50047 Form C

Contacts

N/O = Normally open

1 NO

N/C = Normally closed

1 NC

Notes

 $_{\Box}$ = safety function, by positive opening to IEC/EN 60947-5-1



Contact travel \blacksquare = Contact closed \square = Contact open



Positive opening (ZW)

ves

Colour

Enclosure covers

Yellow

Enclosure covers



Insulated material

Connection type

Cage Clamp

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

The operating head can be rotated at 90° intervals to adapt to the specified approach direction.

Technical data

General

Standards

IEC/EN 60947

Climatic proofing

Damp heat, constant, to IEC 60068-2-78; damp heat, cyclical, to IEC 60068-2-30

Ambient temperature

-25 - +70 °C

Mounting position

As required

Degree of Protection

IP66, IP67

Terminal capacitiesSolid

1 x (0.5 - 2.5) mm²

Terminal capacities Flexible with ferrule

1 x (0.5 - 1.5) mm²

Repetition accuracy

0.15 mm

Contacts/switching capacity

Rated impulse withstand voltage [U_{mp}]

4000 V AC

Rated insulation voltage [U]

400 V

Overvoltage category/pollution degree

Rated operational current [I_e]AC-1524 V [I_e]

Rated operational current [le]AC-15220 V 230 V 240 V [le]

6 A

Rated operational current [le]AC-15380 V 400 V 415 V [le]

Rated operational current [le] DC-13 24 V [le]

Rated operational current [l_e]DC-13 110 V [l_e] 0.6 A

Rated operational current [I $_{\rm e}$]DC-13 220 V [I $_{\rm e}$]

Control circuit reliabilityat 24 V DC/5 mA [H_F]

< 10⁻⁷, < 1 fault in 10⁷ operations Fault probability

Control circuit reliabilityat 5 V DC/1 mA [H=]

< 5 x 10⁻⁶, < 1 failure at 5 x 10⁶ operations Fault probability

Supply frequency

max. 400 Hz

Short-circuit rating to IEC/EN 60947-5-1 max. fuse

6 A gG/gL

Rated conditional short-circuit current

1 kA

Mechanical variables

Lifespan, mechanical [Operations]

Mechanical shock resistance (half-sinusoidal shock, 20 ms)Standard-action contact

25 g

Operating frequency [Operations/h]

6000

Actuation

Mechanical Actuating force at beginning/end of stroke

Mechanical Actuating torque of rotary drives

0.2 Nm

MechanicalMax. operating speed with DIN cam

1/1 m/s

Mechanical Notes

for angle of actuation $\alpha = 0^{\circ}/30^{\circ}$

Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [l_n]

6 A

Heat dissipation per pole, current-dependent $\left[P_{vid} \right]$

0.17 W

Equipment heat dissipation, current-dependent [Pvid]

Static heat dissipation, non-current-dependent $[P_{\!\scriptscriptstyle NS}]$

0 W

Heat dissipation capacity [Pdiss]

0 W

Operating ambient temperature min.

-25 °C

Operating ambient temperature max.

+70 °C

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 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

10.2 Strength of materials and parts 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 Strength of materials and parts 10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts 10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts 10.2.7 Inscriptions

Meets the product standard's requirements.

10.3 Degree of protection of ASSEVBLIES

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 Insulation properties 10.9.3 Impulse with stand voltage

Is the panel builder's responsibility.

10.9 Insulation properties 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 (L) is observed.

Technical data ETIM 7.0

Sensors (EG000026) / End switch (EC000030)

Bectric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Position switch / Position switch (Type 1) (ecl@ss10.0.1-27-27-06-01 [AGZ382015])

Width sensor

31 mm

Diameter sensor

 $0\,\text{mm}$

Height of sensor

61 mm

Length of sensor

33.5 mm

Rated operation current le at AC-15, 24 V

6 A

Rated operation current le at AC-15, 125 V

6 A

Rated operation current le at AC-15, 230 V 6 A

Rated operation current le at DC-13, 24 V

3 A Rated operation current le at DC-13, 125 V

0.8 A Rated operation current le at DC-13, 230 V

0.3 A

Switching function

Slow-action switch Switching function latching

No

Output electronic

Nh

Forced opening

Number of safety auxiliary contacts

Number of contacts as normally closed contact

Number of contacts as normally open contact

Number of contacts as change-over contact

Type of interface

None

Type of interface for safety communication

None

Construction type housing

Cuboid

Material housing

Plastic

Coating housing

Other

Type of control element Roller cam

Alignment of the control element

Other

Type of electric connection

Other

With status indication

No

Suitable for safety functions

Explosion safety category for gas

None

Explosion safety category for dust

None

Ambient temperature during operating

25 - 70 °C

Degree of protection (IP)

IP67

Degree of protection (NEVA)

Approvals

Product Standards

IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14; CE marking

UL File No.

E29184

UL Category Control No.

NKOR

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

Dimensions



☐ Fixing screw 2 x M4 ☐ 30

 $M_A = 1.5 \text{ Nm}$

CAD data

• Product-specific CAD data (Web)

• 3D Preview (Web)

DA-CD-ls_p CAD data

DWG files (Web)

DA-CE-ETNLS-11_P

CAD data edz files (Web)

DA-CS-ls_p CAD data Step files

(Web)

Wiring diagram



Contact sequence

Wiring diagram Line drawing

1 make contact, 1 break contact

Contact travel diagram



Contact diagram

Contact travel diagram Coordinate visualization

Contact travel diagram, plunger, roller plunger

Dimensions single product

131X111

Dimensions single product Line drawing

Roller plunger



Dimensions single product

Line drawing

Roller plunger

☐ Tightening torque of cover screws: 0.8 Nm±0.2 Nm

□ only with LS (insulated version)
 □ Fixing screws 2 x M4 □ 30

3D drawing

1311007

3D drawing Line drawing

Form Croller plunger

1311193

3D drawing

Line drawing

Roller plunger

Product photo



Photo

Product photo

Photo

Roller plunger

Instruction Leaflet

• LS-Titan Position switches: Basic device (IL053001ZU) Instruction Leaflet (PDF, 06/2018, Language independent)

Symbol



Enclosure covers

Symbol

Graphic

Button plate, yellow

Declaration of Conformity

• DA-DC-00003068

Declaration of Conformity

Download-Center

- Download-Center (this item)
 Eaton BVEA Download-Center download data for this item
 Download-Center

Eaton EMEA Download-Center

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