DATASHEET - LSE-11



Safety position switch, LSE, Position switch with electronically adjustable operating point, Basic device, expandable, 1 N/O, 1 NC, Yellow, Insulated material, Cage Clamp, -25 - +70 °C



Part no. LSE-11 Catalog No. 266121 Alternate Catalog LSE-11

No.

EL-Nummer 4356040

(Norway)

Delivery program Basic function Position switches Safety position switches LSE Part group reference Product range Position switch with electronically adjustable operating point Degree of Protection IP66, IP67 Features Basic device, expandable Ambient temperature °C -25 - +70 Description Visual status indication comparable with positive opening function Device goes into safe state on high interference. Can be used in safety circuits partly short-circuit proof Restart after reset Individual operating point adjustment Approval **Contacts** N/O = Normally open 1 N/0 1 NC N/C = Normally closed Contact sequence Q1 Q2 $Contact\ travel \blacksquare = Contact\ closed \Box = Contact\ open$ Rated voltage V DC 12 - 30 Colour Enclosure covers Yellow Enclosure covers

Technical data

General

Housing
Connection type

Notes

Standards IEC/EN 60947

Insulated material

Article No. 264-402

Cage-Clamp is a registered trademark of Wago Kontakttechnik, 32432 Minden, Germany. Accessories for the Cage-Clamp terminals from Wago:power comb, gray, Wago

Cage Clamp

			EN 61000-4
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			IP66, IP67
Terminal capacities		mm ²	
Solid			1 x (0.5 - 2.5)
		mm ²	
Flexible with ferrule		mm ²	1 x (0.5 - 1.5)
Repetition accuracy		mm	0.02
Power supply			
Rated voltage	U _e	V DC	12 - 30
Rated operational current	I _e	Α	
12 V	Ie	Α	0.015
24 V	I	mA	18
30 V	I	Α	0.019
Contacts/switching capacity			
Overvoltage category/pollution degree			III/3
Rated operational current	I _e	Α	
DC-13			
24 V	I _e	Α	0.2
Mechanical variables			
Lifespan, mechanical	Operations	x 10 ⁶	3
Notes			(electronic)
Contact temperature of roller head		°C	≦ 100
Mechanical shock resistance (half-sinusoidal shock, 20 ms)			
Basic unit		g	30
Operating frequency	Operations/h		≦ 3000
Switching point			0.5 - 5.5 mm, freely adjustable
Hysteresis		mm	0.4
Contact sequence (contact closed open Zw = positive opening clearance)		mm	0.04
Actuation			
Mechanical			
Actuating force at beginning/end of stroke		N	3.5/8.0
Actuating torque of rotary drives		Nm	0.2
Max. operating speed with DIN cam		m/s	1/0.5
Notes			for angle of actuation $\alpha = 0^{\circ}/30^{\circ}$
Electromagnetic compatibility (EMC)			
Electrostatic discharge (IEC/EN 61000-4-2, Level 3, ESD)		kV	
Air discharge		kV	8
Contact discharge		kV	4
Electromagnetic fields (RFI) to IEC EN 61000-4-3		V/m	10
Burst Impulse (IEC/EN 61000-4-4, Level 3)			
Supply cable		kV	2
Signal lines		kV	2
Power pulses (surge) (IEC/EN 61000-4-5)		kV	0.5
Immunity to line-conducted interference to (IEC/EN 61000-4-6)		V	10
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Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0.2
Heat dissipation per pole, current-dependent	P_{vid}	W	0.15
Equipment heat dissipation, current-dependent	P_{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	0.4
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25

°C	70
	Meets the product standard's requirements.
	Does not apply, since the entire switchgear needs to be evaluated.
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	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
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	The device meets the requirements, provided the information in the instruction

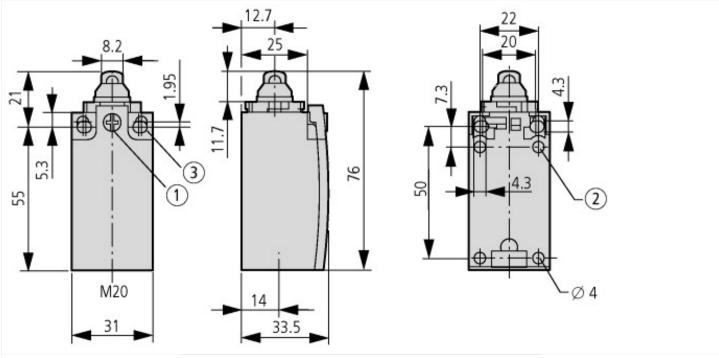
Technical data ETIM 7.0			
Sensors (EG000026) / End switch (EC000030)			
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Position switch / Position switch (Type 1) (ecl@ss10.0.1-27-27-06-01 [AGZ382015])			
Width sensor	m	nm	31
Diameter sensor	m	nm	0
Height of sensor	m	nm	61
Length of sensor	m	nm	33.5
Rated operation current le at AC-15, 24 V	А	١	0
Rated operation current le at AC-15, 125 V	А	١	0
Rated operation current le at AC-15, 230 V	А	١	0
Rated operation current le at DC-13, 24 V	А	١	0.2
Rated operation current le at DC-13, 125 V	А	١.	0
Rated operation current le at DC-13, 230 V	А	١.	0
Switching function			Slow-action switch
Switching function latching			No
Output electronic			Yes
Forced opening			No
Number of safety auxiliary contacts			0
Number of contacts as normally closed contact			1
Number of contacts as normally open contact			1
Number of contacts as change-over contact			0
Type of interface			None
Type of interface for safety communication			None
Construction type housing			Cuboid
Material housing			Plastic
Coating housing			Other

Type of control element		Plunger
Alignment of the control element		Other
Type of electric connection		Other
With status indication		Yes
Suitable for safety functions		Yes
Explosion safety category for gas		None
Explosion safety category for dust		None
Ambient temperature during operating	°C	25 - 70
Degree of protection (IP)		IP67
Degree of protection (NEMA)		4X

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
Degree of Protection	IEC: IP66, 67, UL/CSA Type 3R, 4X (indoor use only), 12, 13

Dimensions



- ① Tightening torque of cover screws: 0.8 Nm \pm 0.2 Nm ② only with LS (insulated version) ③ Fixing screws 2 x M4 \geq 30 M_A = 1.5 Nm

