Safety position switch, LSE, Position switch with electronically adjustable operating point, Basic device, expandable, 2 NC, Yellow, Insulated material, Cage Clamp, -25 - +70 °C



Part no. LSE-02

266122

EL Number 4356041

(Norway)

(Norway)	
General specifications	
Product name	Eaton Moeller® series LSE Safety position switch
Part no.	LSE-02
EAN	4015082661229
Product Length/Depth	33.5 millimetre
Product height	76.5 millimetre
Product width	31 millimetre
Product weight	0.048 kilogram
Compliances	CE Marked
Certifications	CSA Std. C22.2 No. 14 IEC 60947-5 UL 508 EN 60947-5 IEC/EN 61000-4 IEC/EN 60947 UL UL File No.: E29184 CE IEC/EN 60947-5 CSA CSA Class No.: 3211-03 CSA-C22.2 No. 14 CSA File No.: 012528 UL Category Control No.: NKCR
Product Tradename	LSE
Product Type	Safety position switch
Product Sub Type	None
Catalog Notes	Accessories for the Cage-Clamp terminals from Wago:power comb, gray, Wago Article No. 264-402 Cage-Clamp is a registered trademark of Wago Kontakttechnik, 32432 Minden, Germany comparable with positive opening function Device goes into safe state on high interference. Individual operating point adjustment partly short-circuit proof Restart after reset
Features & Functions	
Electric connection type	Cable entry metrical
Enclosure color	Yellow Cover
Enclosure material	Plastic Insulated material
Features	Expandable
Fitted with:	Status indication
Functions	Output electronic
Indication	Visual status indication
Material	Plastic housing
Switch function type	Slow-action switch
General information	
Connection type	Cage Clamp
Degree of protection	IP66/IP67 NEMA Other
Lifespan	3,000,000 electrical Operations 3,000,000 mechanical Operations
Operating frequency	3000 Operations/h
Overvoltage category	III
Pollution degree	3

Product category	Position switch
Rated switching distance (Sn) - min	0.5 mm
Rated switching distance (Sn) - max	5.5 mm
Repetition accuracy	0.02 mm (Contacts/switching capacity)
Suitable for	Safety functions
	0.4 %
Switching hysteresis of Sn  Type	Safety position switch
	Safety position switch
Ambient conditions, mechanical	
Mounting position	As required
Shock resistance	30 g, Basic unit, Mechanical, Half-Sinusoidal shock 20 ms
Temperature resistance	100 °C, Contact temperature of roller head
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	70 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Electro magnetic compatibility	
Air discharge	8 kV, according to IEC/EN 61000-4-2, Level 3, ESD
Burst impulse	2 kV, Signal cable, according to IEC/EN 61000-4-4, Level 3 2 kV, Supply cable, according to IEC/EN 61000-4-4, Level 3
Contact discharge	4 kV, according to IEC/EN 61000-4-2, Level 3, ESD
Electromagnetic fields	10 V/m (according to IEC EN 61000-4-3)
Immunity to line-conducted interference	10 V (according to IEC/EN 61000-4-6)
Surge rating	0.5 kV, Power pulses (Surge), according to IEC/EN 61000-4-5, EMC
Terminal capacities	
Terminal capacity (flexible with ferrule)	1 x (0.5 - 1.5) mm <sup>2</sup>
Terminal capacity (solid)	1 x (0.5 - 2.5) mm <sup>2</sup>
Electrical rating	
Rated breaking capacity	0.019 A (30 V DC)
Rated operational current (le) at AC-15, 220 V, 230 V, 240 V	0 A
Rated operational current (le) at AC-15, 24 V	0 A
Rated operational current (le) at DC-1, 12 V	0.015 A
Rated operational current (le) at DC-1, 24 V	18 A
Rated operational current (le) at DC-13, 125 V	0 A
Rated operational current (le) at DC-13, 220 V, 230 V	0 A
Rated operational current (Ie) at DC-13, 24 V	0.2 A
Rated operational voltage	12 - 30 V DC
Actuator	
Actuating force at beginning/end of stroke	3.5 N/8.0 N
Actuating torque of rotary drives	0.2 N⋅m
Actuator type	Plunger
Operating speed	For angle of actuation $\alpha=0^\circ/30^\circ$ Max. 1/0.5 m/s (with DIN cam, mechanical actuation)
Contacts	
Number of contacts (change-over contacts)	0
Number of contacts (normally closed contacts)	2
Number of contacts (normally open contacts)	0
Safety	
Explosion safety category for gas	None
Explosion safety category for dust	None
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
rical dissipation capacity i also	0.15 W
Heat dissipation per pole, current-dependent Pvid	

Static heat dissipation, non-current-dependent Pvs	0.4 W
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 9.0**

Sensors (EG000026) / End switch (EC000030)

Electric engineering, automation, process control engineering / Sensor technology, safety-related sensor technology / Safety-related mechanical switch (sensor technology) / Safety position switch (Type 1) (ecl@ss13-27-27-26-01 [AKE640018])

switch (Type 1) (ecl@ss13-27-27-26-01 [AKE640018])		
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	Α	0
Rated operation current le at AC-15, 125 V	Α	0
Rated operation current le at AC-15, 230 V	А	0
Rated operation current le at DC-13, 24 V	А	0.2
Rated operation current le at DC-13, 125 V	Α	0
Rated operation current le at DC-13, 230 V	Α	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		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
Construction type housing		Cuboid
Housing material		Plastic
Coating housing		Other
Type of control element		Plunger
Alignment of the control element		Roller cam straight
Type of electric connection		Cable entry metrical

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)		IP66/IP67
Degree of protection (NEMA)		Other