Specifications



Photo is representative





Eaton 266121

Eaton Moeller® series LSE 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

General Specifications	
PRODUCT NAME	Eaton Moeller® series LSE Safety position switch
CATALOG NUMBER	266121
EAN	4015082661212
PRODUCT LENGTH/DEPTH	33.5 mm
PRODUCT HEIGHT	76.5 mm
PRODUCT WIDTH	31 mm
PRODUCT WEIGHT	0.048 kg
CERTIFICATIONS	CE CSA File No.: 012528 CSA-C22.2 No. 14 UL UL Category Control No.: NKCR CSA Class No.: 3211-03 UL 508 CSA IEC/EN 61000-4 UL File No.: E29184 IEC/EN 60947-5 IEC/EN 60947
CATALOG NOTES	Using the product in areas exposed to ozone and UV radiation or in sub-zero temperatures in unprotected outdoor environments (e.g. altitudes above 1,000 m, unprotected sunlight) may reduce the degree of protection. The customer / user must validate the overall application accordingly. If applicable, the use of the LS-…-CC (Cold Climate) variants should be considered.
MODEL CODE	LSE-11

Actuator

ACTUATING FORCE AT BEGINNING/END OF STROKE	3.5 N/8.0 N
ACTUATING TORQUE OF ROTARY DRIVES	0.2 Nm
ACTUATOR TYPE	Plunger
OPERATING SPEED	For angle of actuation α = 0°/30° Max. 1/0.5 m/s (with DIN cam, mechanical actuation)

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 - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78

Contacts

NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1

Design verification

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.
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.

Electrical rating

RATED BREAKING CAPACITY	0.019 A (30 V DC)
RATED OPERATIONAL CURRENT (IE) AT DC-1, 12 V	0.015 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V	18 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 24 V	0.2 A
RATED OPERATIONAL VOLTAGE	12 - 30 V DC

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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.15 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0.2 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0.4 W

Electro magnetic compatibility

AIR DISCHARGE	8 kV, according to IEC/EN 61000-4-2, Level 3, ESD
BURST IMPULSE	2 kV, Supply cable, according to IEC/EN 61000-4-4, Level 3 2 kV, Signal 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

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
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) - MAX	5.5 mm
RATED SWITCHING DISTANCE (SN) - MIN	0.5 mm
REPETITION ACCURACY	0.02 mm (Contacts/switching capacity)
SUITABLE FOR	Safety functions
SWITCHING HYSTERESIS OF SN	0.4 %
TYPE	Safety position switch

Safety

EXPLOSION SAFETY CATEGORY FOR DUST	None
EXPLOSION SAFETY CATEGORY FOR GAS	None

Terminal capacities

TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.5 - 1.5) mm²
TERMINAL CAPACITY (SOLID)	1 x (0.5 - 2.5) mm²

Resources

CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf
CONTROL TRAVEL DIAGRAM	eaton-position-switches-diagram-lse-contact-travel-diagram.eps
DECLARATIONS OF CONFORMITY	eaton-safety-position-switch-declaration-of-conformity-eu251570en.pdf eaton-safety-position-switch-declaration-of-conformity-uk251133en.pdf
DRAWINGS	eaton-position-switches-plunger-ls-dimensions-004.eps eaton-position-switches-plunger-ls-dimensions-002.eps eaton-general-esr5-safety-relay-symbol.eps eaton-operating-button-symbol-008.eps
ECAD MODEL	DA-CE-ETN.LSE-11
INSTALLATION INSTRUCTIONS	eaton-electronic-position-switch-lse-instruction-leaflet-il05208001z.pdf

MCAD MODEL	DA-CS-lse
SALES NOTES	eaton-safety-switches-rs-titan-flyer-fl053001en-en-us.pdf
WIRING DIAGRAMS	eaton-position-switches-diagram-lse-wiring-diagram-002.eps

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:

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