

CB electr.adjustable,1M+1B

LSE-11 Part no.

Article no. 266121





Delivery programme	
Basic function	Position switches Safety position switches
Part group reference (e.g. DIL)	LSE
Range	Operating point electronically adjustable
Protection type	IP66, IP67
Features	Basic device, expandable
	Visual status indication comparable with positive opening function partly short-circuit proof Restart after reset
Approval	TÜV Turbinised Group Type Approved
Auxiliary contacts: = safety function, by positive opening to IEC/EN 60947-5-1	
N/0 = Normally open	1 N/O
N/C = Normally closed	1 N/C
Contact sequence	+U _e electron. Q1 Q2 0 V
Contact travel = Contact closed = Contact open	
Contact diagram	0 0.5 5.5 6.1 Q1 default = 3.0
Colour of enclosure cover	
Housing	Insulated material

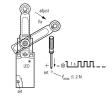
LSE-11 and LSE-02: Individual operating point adjustment::

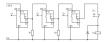




Circuit example for series connection:

LSE-11 and LSE-02 can be used in safety circuits





S1 lies at 24 V DC

S2, S3 each switch with a delay of 0.7 s

R1, R2 e.g. series element M22-XLED60 (2820 $\Omega/0.5$ W)

Approbationen

Product Standards
UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Certification Degree of Protection IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14; CE marking E29184
NKCR
12528
3211-03
UL Listed, CSA certified
IEC: IP66, 67, UL/CSA Type 3R, 4X (indoor use only), 12, 13

General

Standards			IEC/EN 60947 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
Protection type			IP66, IP67
Terminal capacity of screw terminal and Cage Clamp		mm ²	
Solid		mm ²	1 x (0.5 - 2.5)
Flexible with ferrules to DIN 46228		mm ²	1 x (0.5 - 1.5)
Power supply			
Pated voltage	- 11	V DC	12 20

Rated voltage	U _e	V DC	12 - 30
Rated operational current	l _e	Α	
12 V	l _e	Α	0.015
24 V	1	mA	18
30 V	I	Α	0.019

Contacts/switching capacity

Overvoltage category/pollution degree			III/3
Rated operational current	l _e	Α	
DC-13			
24 V	l _e	Α	0.2
Repetition accuracy		mm	0.02

Mechanical variables

Lifespan		S	
Snap-action contact	Operations	x 10 ⁶	3 (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

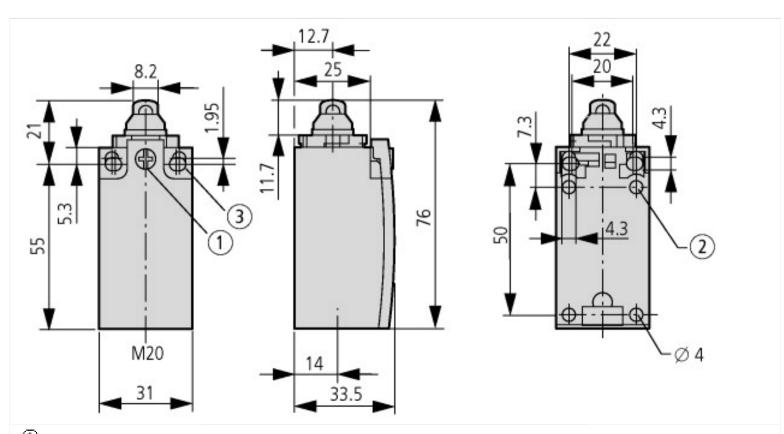
Actuation		
Mechanical		
Actuating force at beginning/end of stroke		
Basic units	N	3.5/8.0
LS(M)-XP	N	1.0/8.0
LS(M)-XL	N	1.0/8.0
LS(M)-XLA	N	1.0/8.0
Actuating torque of rotary drives	Nm	0.2

Max. operating speed with DIN cam			
Basic units for angle of actuation	$\alpha = 0^{\circ}/30^{\circ}$	m/s	1/0.5
LS(M)-XRL for angle of actuation	$\alpha = 0^{\circ}$	m/s	1.5
LS(M)-XRLA for angle of actuation	α = 30°, L = 125 mm	m/s	1.5
LS(M)-XRR for	L = 130 mm	m/s	1.5
LS(M)-XL for angle of actuation	$\alpha=30^{\circ}/45^{\circ}$	m/s	1
LS(M)-XLA for angle of actuation	$\alpha=30^{\circ}/45^{\circ}$	m/s	1
LS(M)-XP for angle of actuation	$\alpha = 0^{\circ}/30^{\circ}$	m/s	1/1
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 61000-4-2		V/m	10
Burst Impulse (IEC/EN 61000-4-4, Level 3)			
Supply cables		kV	2
Signal lines		kV	2
Power pulses (surge) (IEC/EN 61000-4-5)		kV	0.5
Radiated RFI (IEC/EN 61000-4-6)		V	10

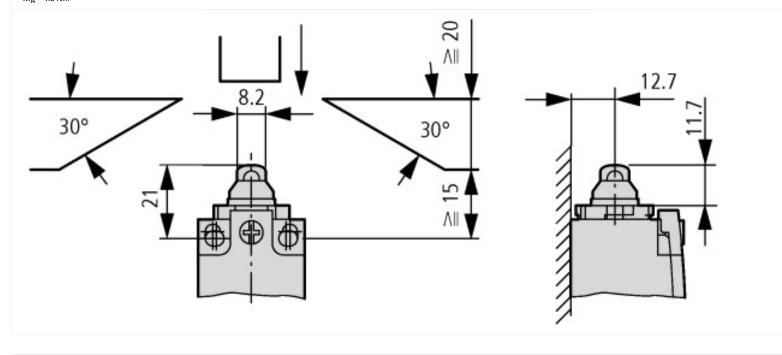
Technische Daten nach ETIM 4.0

Switch function		Standard-action contact
Material housing		Insulated material
Suitable for safety functions		YES
Coating of housing		-
With status indication		YES
Degree of protection (IP)		IP67
Positive opening		YES
Type of control element		Rounded plunger
Width sensor	mm	31
Height of sensor	mm	61
Number of contacts as normally closed contact		1
Number of contacts as normally open contact		1
Number of contacts as change-over contact		0

Dimensions



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



Additional product information (links)

AWA1310-2349 (IL05208001Z) Electronic position switches

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/23491206.pdf