



Position switches; 1N/O+1N/C; rotary lever; M12A

**Part no.** LS-11S/RL-M12A  
**Article no.** 178142  
**Catalog No.** LS-11S/RL-M12A

## Delivery program

Basic function			Position switches Safety position switches
Part group reference			LS(M)-...
Product range			Rotary lever
Degree of Protection			IP66
Equipment supplied			with M12 connector
Features			Complete device
Ambient temperature		°C	-25 - +70
Design			EN 50047 Form A
Snap-action contact			Yes
<b>Contacts</b>			
N/O = Normally open			1 N/O
N/C = Normally closed			1 NC
Notes			= safety function, by positive opening to IEC/EN 60947-5-1
Contact sequence			
Contact travel  = Contact closed  = Contact open			
Positive opening (ZW)			yes
<b>Colour</b>			
Enclosure covers			Yellow
Enclosure covers			
Housing			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

## Technical data

<b>General</b>			
Standards			IEC/EN 60947
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
Terminal capacities		mm <sup>2</sup>	
Solid		mm <sup>2</sup>	1 x (0.5 - 2.5)
Flexible with ferrule		mm <sup>2</sup>	1 x (0.5 - 1.5)

Contacts/switching capacity

Rated impulse withstand voltage	U <sub>imp</sub>	V AC	2500
Rated insulation voltage	U <sub>i</sub>	V	250
Overvoltage category/pollution degree			III/3
Rated operational current	I <sub>e</sub>	A	
AC-15			
24 V	I <sub>e</sub>	A	6
115 V	I <sub>e</sub>	A	4
220 V 230 V 240 V	I <sub>e</sub>	A	1
380 V 400 V 415 V	I <sub>e</sub>	A	4
DC-13			
24 V	I <sub>e</sub>	A	3
110 V	I <sub>e</sub>	A	0.8
220 V	I <sub>e</sub>	A	0.3
Control circuit reliability			
at 24 V DC/5 mA	H <sub>F</sub>	Fault probability	< 10 <sup>-7</sup> , < 1 fault in 10 <sup>7</sup> operations
at 5 V DC/1 mA	H <sub>F</sub>	Fault probability	< 10 <sup>-6</sup> , < 1 failure at 5 x 10 <sup>6</sup> operations
Supply frequency		Hz	max. 400
Short-circuit rating to IEC/EN 60947-5-1			
max. fuse		A gG/gL	4
Repetition accuracy		mm	0.15
Rated conditional short-circuit current		kA	1

Mechanical variables

Lifespan, mechanical	Operations	x 10 <sup>6</sup>	8
Mechanical shock resistance (half-sinusoidal shock, 20 ms)			
Standard-action contact		g	25
Operating frequency	Operations/h		≦ 6000

Actuation

Mechanical			
Actuating torque of rotary drives		Nm	0.2
Max. operating speed with DIN cam		m/s	1.5
Notes			for angle of actuation α = 0°

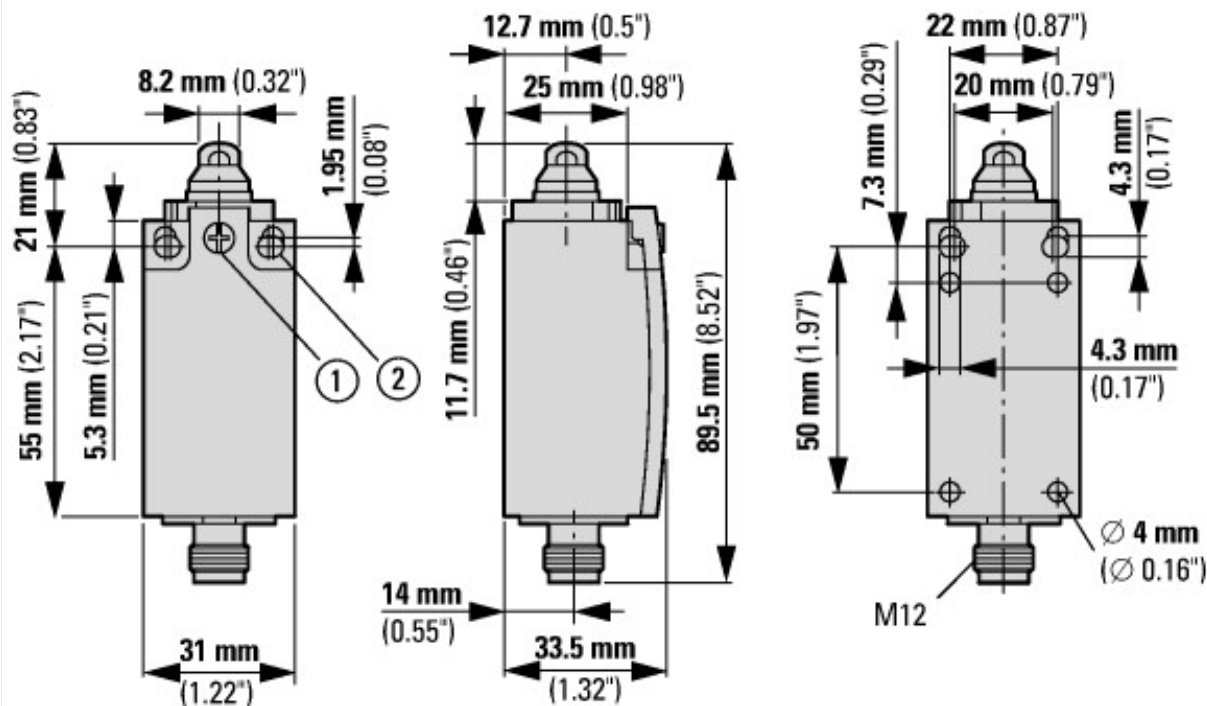
Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70

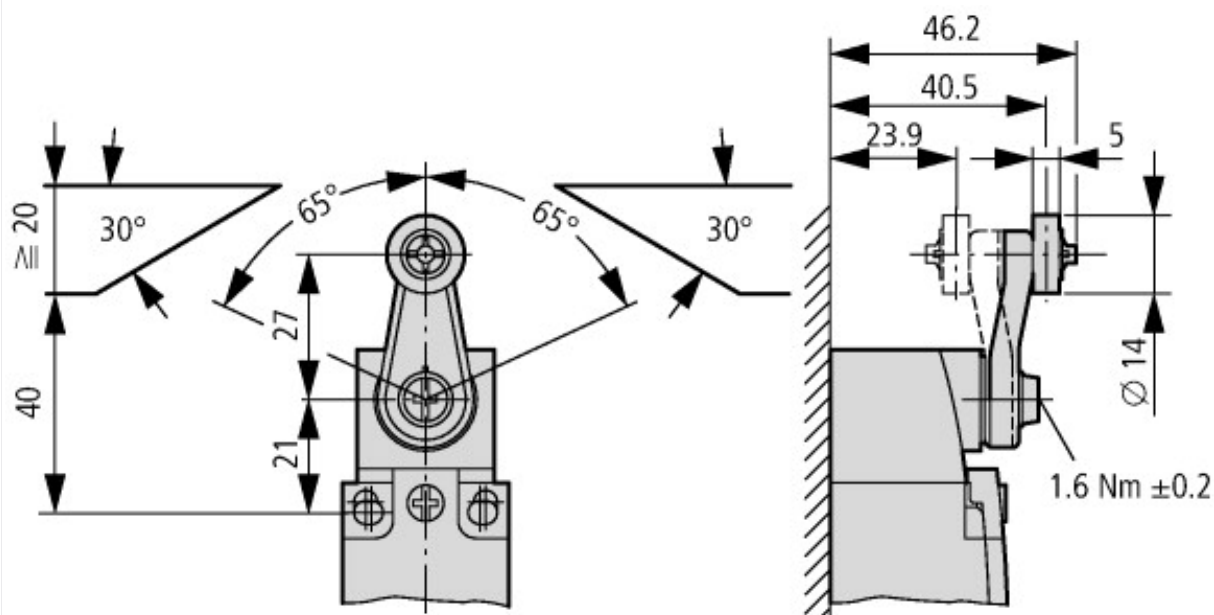
Technical data ETIM 6.0

Sensors (EG000026) / Drive head for position switches/hinge switches (EC001483)			
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Position switch / Drive head for position switches (ecI@ss8.1-27-27-06-04 [BAA083009])			
Type of control element			Rotary lever

## Dimensions



- ① Tightening torque Cover screw: 0.8 Nm  $\pm$  0.2 Nm
- ② Fixing screw 2 x M4  $\cong$  30



## Additional product information (links)

IL053001ZU LS-Titan position switch: basic device

IL053001ZU LS-Titan position switch: basic device

[http://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL053001ZU2013\\_08.pdf](http://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL053001ZU2013_08.pdf)