DATASHEET - LSR-S11-1-I/TS



Hinge-operated safety switch, 1N/O+1N/C, insulated material

Part no. LSR-S11-1-I/TS Catalog No. 106851

Eaton Catalog No. LSR-S11-1-I/TS

4356193

EL-Nummer (Norway) Powering Business Worldwide*

Delivery program

penvery hrogiani		
Basic function		Position switches Safety position switches
Part group reference		LSR
Product range		Safety hinge switch
Degree of Protection		IP65
Features		Complete unit
Ambient temperature	°C	-25 - +70
Approval		ET 17042 Sicherheit geprüft tested safety
Contacts		
N/O = Normally open		1 N/0
N/C = Normally closed		1 NC →
Notes		= safety function, by positive opening to IEC/EN 60947-5-1
Contact sequence		O\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Contact travel = Contact closed = Contact open		21 – 22 13 – 14 180° 17° 17° 180° Zw = 10°
Housing		Insulated material
Connection type		Screw terminal

Technical data

General	
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	IP65
Terminal capacities	mm ²
Solid	mm ² 1 x (0.75 - 2.5) 2 x (0.75 - 1.5)
Flexible with ferrule	mm ² 1 x (0.5 - 1.5) 2 x (0.5 - 1.5)

Contacts/switching capacity

U_{imp}	V AC	6000	
Ui	V	500	
le	Α		
l _e	Α	6	
l _e	Α	6	
l _e	Α	4	
l _e	Α	3	
le	Α	0.8	
l _e	Α	0.3	
	Hz	max. 400	
	A gG/gL	6	
	mm	0.02	
	kA	1	
Mechanical variables			
Operations	x 10 ⁶	1	
	g	25	
Operations/h		≦ 1800	
	Ui Ie Ie Ie Ie Ie Operations	Ui V le A Operations x 10 ⁶	

Design verification as per IEC/EN 61439

Design verification as per IEC/EN 61439			
echnical data for design verification			
Rated operational current for specified heat dissipation	In	Α	6
Heat dissipation per pole, current-dependent	P _{vid}	W	0.13
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P_{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
C/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties			
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 7.0

Sensors (EG000026) / Hinge switch (EC002591)

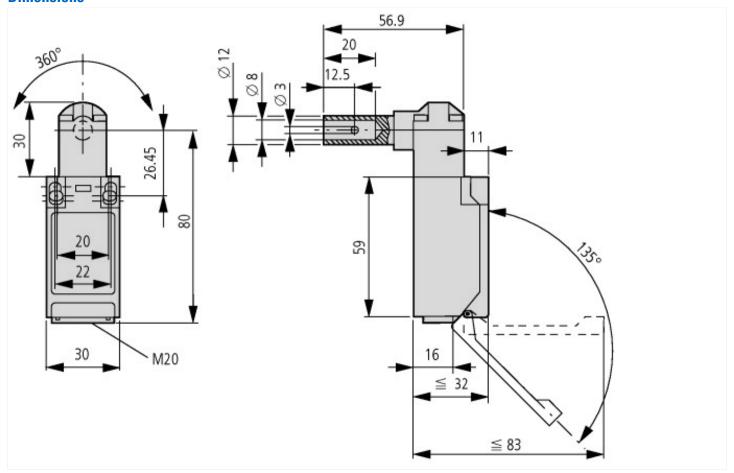
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Position switch / Hinge switch (ecl@ss10.0.1-27-27-06-09 [ACN833011])

With status indication Mean of control element Mean of control element Type of control element Fee Bollow shaft Forced opening Yes Forced opening Pee Goath Celement Number of safety suxiliary contacts 1 Number of contacts as normally closed contact 1 Number of contacts as normally open contact 1 Number of contacts as normally open contact 2 Number of contacts as normally open contact 8 Number of contacts as normally open contact 8 Width sensor 8 Width sensor 8 Height of sensor 8 Rated operation current le at AC-15,24 V A Rated operation current le at AC-15,24 V A Rated operation current le at DC-13,24 V A Rated operation current le at DC-13,25 V B Rated operation current le at DC-13,25 V B Costing by Late of the busing B	[ACN833011])		
Type of control element Forced opening Yes 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 Yumber of contacts as change-over contact 0 Width sensor mm 30 Height of sensor mm 3 Rated operation current le at AC-15, 24 V A 10 Rated operation current le at AC-15, 25 V A 6 Rated operation current le at AC-13, 25 V A 6 Rated operation current le at DC-13, 25 V A 1 Rated operation current le at DC-13, 25 V A 1 Rated operation current le at DC-13, 25 V A 1 Rated operation current le at DC-13, 25 V A 1 Rated operation current le at DC-13, 25 V A 5 Rated operation current le at DC-13, 25 V A 1 Rated operation current le at DC-13, 25 V A Cubid Cobstruction type housing Cubic Cubic	With status indication		No
Forced opening Yes 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 somally open contact 0 Number of contacts as somally open contact 1 Width sensor 8 Height of sensor mm 3 Length of sensor mm 3 Rated operation current le at AC-15, 24 V A 10 Rated operation current le at AC-15, 252 V A 0 Rated operation current le at AC-15, 230 V A 3 Rated operation current le at DC-13, 24 V A 3 Rated operation current le at DC-13, 25 V A 1 Rated operation current le at DC-13, 25 V A 1 Rated operation current le at DC-13, 25 V A 1 Rated operation current le at DC-13, 25 V A 1 Rated operation current le at DC-13, 25 V A 1 Rated operation current le at DC-13, 25 V A 1 Costruction type housing D	Suitable for safety functions		Yes
Number of safety auxiliary contacts 1 Number of contacts as normally closed contact 1 Number of contacts as normally open contact 1 Number of contacts as change-over contact 5 Type of switching contact 8 Width sensor mm 30 Height of sensor mm 32 Rated operation current le at AC-15, 24 V A 10 Rated operation current le at AC-15, 25 V A 10 Rated operation current le at AC-15, 230 V A 1 Rated operation current le at DC-13, 25 V A 1 Rated operation current le at DC-13, 25 V A 1 Rated operation current le at DC-13, 25 V A 1 Rated operation current le at DC-13, 25 V A 1 Rated operation current le at DC-13, 250 V A 1 Construction type housing 0 0 Material housing <	Type of control element		Hollow shaft
Number of contacts as normally closed contact 1 Number of contacts as normally open contact 0 Number of contacts as change-over contact 0 Type of savitching contact Slow-action switch Width sensor mm 30 Height of sensor mm 91 Rated operation current le at AC-15, 24 V A 10 Rated operation current le at AC-15, 125 Y A 0 Rated operation current le at AC-15, 230 V A 6 Rated operation current le at DC-13, 24 V A 3 Rated operation current le at DC-13, 25 V A 1 Rated operation current le at DC-13, 250 V A 0.5 Construction type housing A 0.5 Material housing Plastic Cubid Coting housing Cubic entry metrical Cubic entry metrical Explosion safety category for gas Cubic entry metrical Cubic entry metrical Explosion safety category for dust None None Type of interface for safety communication None None Type of interface for safety	Forced opening		Yes
Number of contacts as normally open contact Number of contacts as change-over contact Type of switching contact Width sensor Height of sensor Length of sensor Rated operation current le at AC-15, 24 V Rated operation current le at AC-15, 25 V Rated operation current le at AC-15, 25 V Rated operation current le at AC-15, 25 V Rated operation current le at DC-13, 24 V Rated operation current le at DC-13, 25 V Rated operation current le at DC	Number of safety auxiliary contacts		0
Number of contacts as change-over contact Type of switching contact Width sensor Height of sensor Length of sensor Rated operation current le at AC-15, 24 V Rated operation current le at AC-15, 125 V Rated operation current le at AC-15, 230 V Rated operation current le at DC-13, 24 V Rated operation current le at DC-13, 25	Number of contacts as normally closed contact		1
Type of switching contact Width sensor Height of sensor Length of sensor Rated operation current le at AC-15, 24 V Rated operation current le at AC-15, 125 V Rated operation current le at AC-15, 230 V Rated operation current le at AC-15, 230 V Rated operation current le at DC-13, 24 V Rated operation current le at DC-13, 25 V Rated operation current le at D	Number of contacts as normally open contact		1
Width sensor mm 30 Length of sensor mm 91 Length of sensor mm 32 Rated operation current le at AC-15, 24 V A 10 Rated operation current le at AC-15, 125 V A 6 Rated operation current le at DC-13, 24 V A 3 Rated operation current le at DC-13, 24 V A 1 Rated operation current le at DC-13, 25 V A 1 Rated operation current le at DC-13, 230 V A 0.5 Construction type housing Cuboid Cuboid Material housing Plastic Cuboid Cotating housing Other Cuboid entry metrical Explosion safety category for gas Cable entry metrical Cable entry metrical Explosion safety category for dust None None Type of interface None None Type of interface for safety communication None None Explosion full full full full full full full ful	Number of contacts as change-over contact		0
Height of sensor mm 91 Length of sensor mm 32 Rated operation current le at AC-15, 24 V A 10 Rated operation current le at AC-15, 125 V A 6 Rated operation current le at AC-15, 230 V A 6 Rated operation current le at DC-13, 24 V A 3 Rated operation current le at DC-13, 230 V A 1 Rated operation current le at DC-13, 230 V A 0.5 Construction type housing Cuboid Plastic Material housing Plastic Plastic Coating housing Other Cable entry metrical Type of electric connection Cable entry metrical None Explosion safety category for dust None None Type of interface None None Type of interface for safety communication None None Degree of protection (IP) IP65	Type of switching contact		Slow-action switch
Rated operation current le at AC-15, 24 V Rated operation current le at AC-15, 125 V Rated operation current le at AC-15, 125 V Rated operation current le at AC-15, 125 V Rated operation current le at AC-15, 230 V Rated operation current le at DC-13, 24 V Rated operation current le at DC-13, 125 V Rated operation current le at DC-13, 125 V Rated operation current le at DC-13, 125 V Rated operation current le at DC-13, 230 V Rated operation current le at DC-13, 250 V Rated operation current le	Width sensor	mm	30
Rated operation current le at AC-15, 24 V A 0 Rated operation current le at AC-15, 125 V A 0 Rated operation current le at AC-15, 125 V A 6 Rated operation current le at AC-15, 230 V A 6 Rated operation current le at DC-13, 24 V A 3 Rated operation current le at DC-13, 125 V A 1 Rated operation current le at DC-13, 125 V A 1 Rated operation current le at DC-13, 230 V A 0.5 Construction type housing Cuboid Material housing Plastic Coating housing Other Type of electric connection Cable entry metrical Explosion safety category for gas None Explosion safety category for dust None Type of interface for safety communication None Degree of protection (IP)	Height of sensor	mm	91
Rated operation current le at AC-15, 125 V A 6 Rated operation current le at AC-15, 230 V A 6 Rated operation current le at DC-13, 24 V A 3 Rated operation current le at DC-13, 125 V A 1 Rated operation current le at DC-13, 125 V A 0.5 Construction type housing Coating housing Coating housing Coating housing Coating housing Type of electric connection Explosion safety category for dust Type of interface Type of interface Type of interface for safety communication Degree of protection (IP) A 0 Coating housing Coating hou	Length of sensor	mm	32
Rated operation current le at AC-15, 230 V Rated operation current le at DC-13, 24 V Rated operation current le at DC-13, 125 V A 1 Rated operation current le at DC-13, 125 V A 0.5 Construction type housing Material housing Coating housing Coating housing Type of electric connection Explosion safety category for gas Explosion safety category for dust Type of interface Type of interface for safety communication Degree of protection (IP) A 0.5 Cuboid Cub	Rated operation current le at AC-15, 24 V	Α	10
Rated operation current le at DC-13, 24 V Rated operation current le at DC-13, 125 V Rated operation current le at DC-13, 230 V Rated operation current le at DC-13, 125 V Rated operation current le	Rated operation current le at AC-15, 125 V	Α	0
Rated operation current le at DC-13, 125 V Rated operation current le at DC-13, 230 V A D.5 Construction type housing Cuboid Material housing Coating housing Plastic Coating housing Coating housing Coating safety category for gas Explosion safety category for dust Type of interface Type of interface Type of interface for safety communication Degree of protection (IP) A 1 1 1 1 1 1 1 1 1 1 1 1	Rated operation current le at AC-15, 230 V	Α	6
Rated operation current le at DC-13, 230 V Construction type housing Material housing Coating housing Coating housing Type of electric connection Explosion safety category for gas Explosion safety category for dust Type of interface Type of interface for safety communication Degree of protection (IP) A 0.5 Cuboid Cuboid Plastic Other Cable entry metrical None None None None None IP65	Rated operation current le at DC-13, 24 V	Α	3
Construction type housing Material housing Coating housing Coating housing Type of electric connection Explosion safety category for gas Explosion safety category for dust Type of interface Type of interface for safety communication Degree of protection (IP) Cuboid Plastic Other Cable entry metrical None None None None None None IP65	Rated operation current le at DC-13, 125 V	Α	1
Material housing Coating housing Other Type of electric connection Explosion safety category for gas None Explosion safety category for dust None Type of interface None Type of interface for safety communication Degree of protection (IP) Plastic Cable entry metrical None None None None It plastic None It plastic It pl	Rated operation current le at DC-13, 230 V	Α	0.5
Coating housing Type of electric connection Explosion safety category for gas Explosion safety category for dust Type of interface Type of interface for safety communication Degree of protection (IP) Other Cable entry metrical None None None None 1965	Construction type housing		Cuboid
Type of electric connection Explosion safety category for gas Explosion safety category for dust Type of interface Type of interface for safety communication Degree of protection (IP) Cable entry metrical None None None 1965	Material housing		Plastic
Explosion safety category for gas Explosion safety category for dust None Type of interface None Type of interface for safety communication None Degree of protection (IP) None	Coating housing		Other
Explosion safety category for dust Type of interface Type of interface for safety communication Degree of protection (IP) None P65	Type of electric connection		Cable entry metrical
Type of interface None Type of interface for safety communication None Degree of protection (IP) IP65	Explosion safety category for gas		None
Type of interface for safety communication Degree of protection (IP) None IP65	Explosion safety category for dust		None
Degree of protection (IP)	Type of interface		None
	Type of interface for safety communication		None
Degree of protection (NEMA) Other	Degree of protection (IP)		IP65
	Degree of protection (NEMA)		Other

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: IP65, UL/CSA Type 3R, 4X (indoor use only), 12, 13

Dimensions



Additional product information (links)

IL05208006Z (AWA1310-2363) Hasp-Operated and Hinge-Operated Safty Switches

IL05208006Z (AWA1310-2363) Hasp-Operated and Hinge-Operated Safty Switches

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05208006Z2018_09.pdf

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