

Part no. Article no. Catalog No. LSR-S02-1-I/TKG 106848 LSR-S02-1-I-TKG





Derivery program		
Basic function		Position switches Safety position switches
Part group reference		LSR
Product range		Hasp-operated safety switch
Degree of Protection		IP65
Features		Complete unit
Ambient temperature	°C	-25 - +70
Approval		Corprüze Corprüze
Contacts		
N/C = Normally closed		2 NC 🛞
Notes) = safety function, by positive opening to IEC/EN 60947-5-1
Contact sequence		o
Contact travel = Contact closed = Contact open		$ \begin{array}{c} 0^{\circ} \\ 21 - 22 \\ 11 - 12 \\ 90^{\circ} \\ Zw = 10^{\circ} \end{array} $
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)

Contacts/switching capacity Rated impulse withstand voltage Ump VAC 6000 Rated insulation voltage Ui VC 500 Rated operational current Ie Ac Factory Ie Factory AC-15 Ie Contacts/switching capacity Ie Factory Ie				(
Rated insulation voltage U, V Bole Rated operational current Ie AC-15 Ie	Contacts/switching capacity			
Rated operational current Ie A AC-15 Ie Ie 24V Ie A 220 V230 V240 V Ie A 380 V400 V415 V Ie A 380 V400 V415 V Ie A 24V Ie A 380 V400 V415 V Ie A 24V Ie A 10C-13 Ie X 24V Ie A 24V Ie A 10V Ie A 24V Ie A 24V Ie A 24V Ie A 24V Ie A 20V Ie A Supply frequency Ie A Max fuse A giG A Repetition accuracy M Ie Repetition accuracy Im A Reterminel Instrument Im Im Koretanicie Im Im	Rated impulse withstand voltage	U _{imp}	V AC	6000
AC-15Image: state of the state o	Rated insulation voltage	Ui	V	500
24 VIeA620 V 20 V 240 VIeA6380 V 400 V 415 VIeA4DC-13III24 VIeA3110 VIeA3220 VIeA3200 VIeA3Supply frequencyIeA3Nort-circuit rating to IEC/EN 60947-5-1IeA3Max. fuseIeAA3Repetition accuracyIeA33Repetition accuracyIeM33Retarical short-circuit currentIeM33Methanical short-circuit currentIeN33MatherIeN333Methanical short-circuit currentIeN33MatherIeNN33MatherIeNN33MatherIeNN33MatherIeNN33MatherIeNN33MatherIeNN33MatherIeNN33MatherIeNN33MatherIeNN33MatherIeNN33MatherIeNNN3MatherIeN <td>Rated operational current</td> <td>l_e</td> <td>А</td> <td></td>	Rated operational current	l _e	А	
220 V 230 V 240 V Ie Ae 6 380 V 400 V 415 V Ie Ae 6 DC-13 Ie Ae 6 24 V Ie Ae 3 110 V Ie Ae 8 220 V Ie Ae 3 24 V Ie Ae 3 10 V Ie Ae 3 220 V Ie Ae 3 Stort-cruit rating to IEC/EN 60947-5-1 Ie Max 400 Repetition accuracy Me AgG/g 6 Repetition accuracy Mm 0.2 10 Red conditional short-circuit current Mm 0.2 10 Methanical variables Mm 0.2 10 10 Stordard-action contact Mm 10 10 10	AC-15			
380 V 400 V 415 V Ie A DC-13 Ie A 24 V Ie A 110 V Ie A 220 V Ie A Supply frequency Ie A Supply frequency Ie A nax. fuse Ie A Repetition accuracy Ie A Red conditional short-circuit current Vertament Ie Mechanical shock resistance (half-sinusoidal shock, 20 ms) Speration Ie Standard-action contact Ie Ie Ie	24 V	le	А	6
DC-13 Constraint of the second s	220 V 230 V 240 V	l _e	Α	6
24 V Inological	380 V 400 V 415 V	le	А	4
110 V Image: Participation of the particip	DC-13			
Z20 V Ie A 0.3 Supply frequency Hz max. 400 Short-circuit rating to IEC/EN 60947-5-1 - - max. fuse A gG/pL 6 Repetition accuracy Mm 0.02 Rated conditional short-circuit current Operations N Lifespan, mechanical Operations N 10 Mechanical shock resistance (half-sinusoidal shock, 20 ms) Operations N 10 Standard-action contact Image Image Image	24 V	le	А	3
Supply frequency Hz max. 400 Short-circuit rating to IEC/EN 60947-5-1 Hz max. 400 max. fuse A gG/gL 6 Repetition accuracy Mm 0.2 Rated conditional short-circuit current KA 1 Mechanical variables Y 1 Ifespan, mechanical Perations x 10 ⁶ Standard-action contact g g	110 V	le	А	0.8
Short-circuit rating to IEC/EN 60947-5-1 Imax. fuse A gG/gL A gG/gL max. fuse A gG/gL Machanical short-circuit current Nater constraint	220 V	le	А	0.3
max. fuseA gG/uA gG/uRepetition accuracymm0.02Rated conditional short-circuit currentkA1Mechanical variablesLifespan, mechanicalOperationsyMechanical shock resistance (half-sinusoidal shock, 20 ms)yyStandard-action contactgg5	Supply frequency		Hz	max. 400
Repetition accuracy mm 0.02 Rated conditional short-circuit current kA 1 Mechanical variables y y Lifespan, mechanical Operations y y Mechanical shock resistance (half-sinusoidal shock, 20 ms) y y 1 Standard-action contact g g 5	Short-circuit rating to IEC/EN 60947-5-1			
Rated conditional short-circuit current kA Mechanical variables Lifespan, mechanical Mechanical shock resistance (half-sinusoidal shock, 20 ms) Standard-action contact	max. fuse		A gG/gL	6
Mechanical variables Lifespan, mechanical Operations Mechanical shock resistance (half-sinusoidal shock, 20 ms) Parations Standard-action contact g	Repetition accuracy		mm	0.02
Lifespan, mechanical Operations × 10 ⁶ Mechanical shock resistance (half-sinusoidal shock, 20 ms) g 25	Rated conditional short-circuit current		kA	1
Mechanical shock resistance (half-sinusoidal shock, 20 ms) g 25	Mechanical variables			
Standard-action contact g 25	Lifespan, mechanical	Operations	x 10 ⁶	1
	Mechanical shock resistance (half-sinusoidal shock, 20 ms)			
Operating frequency Operations/h	Standard-action contact		g	25
	Operating frequency	Operations/h		≦ ₁₈₀₀

2 x (0.5 - 1.5)

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	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
IEC/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.

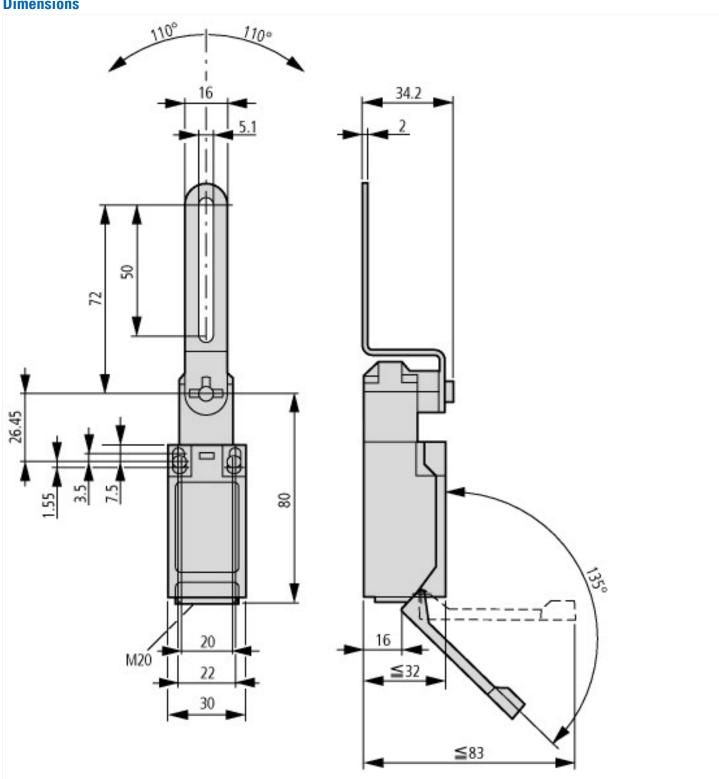
Technical data ETIM 6.0

Sensors (EG000026) / End switch (EC000030)			
Electric engineering, automation, process control engineering / Binary sensor tech [AGZ382012])	hnology, safety-	related se	ensor technology / Position switch / Position switch (Type 1) (ecl@ss8.1-27-27-06-01
Width sensor		mm	30
Diameter sensor		mm	0
Height of sensor		mm	91
Length of sensor		mm	32
Rated operation current le at AC-15, 24 V		Α	0
Rated operation current le at AC-15, 125 V		А	0
Rated operation current le at AC-15, 230 V		Α	0
Rated operation current le at DC-13, 24 V		Α	0
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
Output electronic			No
Forced opening			Yes
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
Housing according to norm			
Construction type housing			Cuboid
Material housing			Plastic
Coating housing			
Type of control element			Rotary lever
Alignment of the control element			
Type of electric connection			Cable entry metrical
With status indication			No
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)			IP65

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 ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05208006Z2016_06.pdf and Hinge-Operated Safty Switches