

CERTIFICATE OF COMPLIANCE

Certificate Number E98133
Report Reference E98133-20210302
Date 2021-March-18

Issued to: EVEREL GROUP SPA
Via Cavour 9
Valeggio Sul MincioVr 37067 IT

This is to certify that
representative samples of SWITCHES, APPLIANCE AND SPECIAL USE -
COMPONENT
See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the
component requirements in the Standard(s) indicated on
this Certificate. UL Recognized components are incomplete
in certain constructional features or restricted in
performance capabilities and are intended for installation in
complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety: UL 61058-1 the standard for Switches for Appliances —
Part 1: General Requirements
UL 61058-1-1 the standard for Switches for Appliances —
Part 1-1: Requirements for mechanical switches
Switches for Appliances - Part 1: Requirements for
Mechanical Switches CAN/CSA-C22.2 No. 61058-1:17
Switches for Appliances - Part 1-2: Requirements for
Mechanical Switches CAN/CSA-C22.2 No. 61058-2:17

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark.
Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified
and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.

B. Mahlen

Bruce Mahlenholz, Director North American Certification Program

UL LLC



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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Models:

USR, CNR Component, Appliance Switches: L4 – L5 (Mechanical switch)

L4 f/b 1, 2, 3, 4, 5, L f/b 1, 2, 4, A, B, D, X f/b 1, 2, 4, 5, 6, 7, 8, N, R f/b H, 9
L4 f/b 1, 2, 3, 4, 5, L f/b 1, 2, 4, A, B, D, X f/b 1, 2, 4, 5, 6, 7, 8, N, R f/b G
L4 f/b 1, 2, 3, 4, 5, L f/b 1, 2, 4, A, B, D, X f/b 1, 2, 4, 5, 6, 7, 8, N, R f/b H, 9, G
L5 f/b 1, 2, 3, 4 f/b 1, 2, 4, A, B, D, X f/b . f/b 1, 2, 4, 7 f/b H, 9



Bruce Mahrenholz, Director North American Certification Program

UL LLC



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DESCRIPTION
PRODUCT COVERED:
USR, CNR Component, Appliance Switches: L4 - L5 (Mechanical switch)

Model	Load	Amp	Volt	Hz	Temp C	Pol/ Thr/ (Cir.)	Endurance		IP	DIS	SPCA	ed
							30C	55C				
L4 f/b 1, 2, 3, 4, 5, L f/b 1, 2, 4, A, B, D, X f/b 1, 2, 4, 5, 6, 7, 8, N, R f/b H, 9	RM	16(4)	125/250	50	125/55	1,2/1 (1.2, 1.3)	--	10K	40	Full	B	2017
L4 f/b 1, 2, 3, 4, 5, L f/b 1, 2, 4, A, B, D, X f/b 1, 2, 4, 5, 6, 7, 8, N, R f/b G	RM	16(4)	250	50	125/55	1,2/1 (1.2, 1.3)	--	10K	40	Full	B	2017
L4 f/b 1, 2, 3, 4, 5, L f/b 1, 2, 4, A, B, D, X f/b 1, 2, 4, 5, 6, 7, 8, N, R f/b H, 9	RM	12(10)	125/250	50	125/55	1,2/1 (1.2, 1.3)	--	10K	40	Full	B	2017

Model	Load	Amp	Volt	Hz	Temp C	Pol/ Thr/ (Cir)	Endurance		IP	DIS	SPCA	ed
L4 f/b 1, 2, 3, 4, 5, L f/b 1, 2, 4, A, B, D, X f/b 1, 2, 4, 5, 6, 7, 8, N, R f/b G	RM	12 (10)	250	50	125/55	1,2/1 (1.2, 1.3)	--	10K	40	Full	B	2017
L4 f/b 1, 2, 3, 4, 5, L f/b 1, 2, 4, A, B, D, X f/b 1, 2, 4, 5, 6, 7, 8, N, R f/b H, 9	HP	1/2	125	50	125/55	1,2/1 (1.2, 1.3)	--	10K	40	Full	B	2009
L4 f/b 1, 2, 3, 4, 5, L f/b 1, 2, 4, A, B, D, X f/b 1, 2, 4, 5, 6, 7, 8, N, R f/b H, 9, G	HP	3/4	250	50	125/55	1,2 / 1 (1.2, 1.3)	--	10K	40	Full	B	2009
L5 f/b 1, 2, 3, 4 f/b 1, 2, 4, A, B, D, X f/b . f/b 1, 2, 4, 7 f/b H, 9	RM	16 (4)	125/250	50	125/55	1,2 / 1 (1.2, 1.3)	--	10K	40	Full	B	2017

Model	Load	Amp	Volt	Hz	Temp C	Pol/ Thr/ (Cir)	Endurance		IP	DIS	SPCA	ed
L5 f/b 1, 2, 3, 4 f/b 1, 2, 4, A, B, D, X f/b . f/b 1, 2, 4, 7 f/b H, 9	RM	12 (10)	125/250	50	125/55	1, 2/1 (1.2, 1.3)	--	10K	40	Full	B	2017
L5 f/b 1, 2, 3, 4 f/b 1, 2, 4, A, B, D, X f/b . f/b 1, 2, 4, 7 f/b H, 9	HP	3/4	250	50	125/55	1, 2/1 (1.2, 1.3)	--	10K	40	Full	B	2009
L5 f/b 1, 2, 3, 4 f/b 1, 2, 4, A, B, D, X f/b . f/b 1, 2, 4, 7 f/b H, 9	HP	1/2	125	50	125/55	1, 2/1 (1.2, 1.3)	--	10K	40	Full	B	2009

EXPLANATION OF COLUMN HEADINGS

Model - Cat. No. - Identifier used by the manufacturer for a specific switch
Model or Catalog number.

f/b - followed by, ww/o - With or without,

Load - identify the load according the Testing. R= resistive, RM= resistive
and motor, RC= resistive and capacitive, L=tungsten lamp load, Spc=
specific load, mA =load below 20mA, SpcL, SpcT = specific lamp load
such as US L or T, I= inductive, SpcM= specific motor rating, TV=
television, GP= general purpose, GPM= general purpose and motor, GPhp=
general purpose and horse power.

Amps - the steady state amp value of the switch. Per pole value may be
marked "PP" and is verified by the circuit connection.

Volt - the Voltage (RMS) value.

Hz - the Frequency or range such as (50-60).

Temp - The declared operating temperature of the switch.

Pol/Thr/Cir - The number of Poles (Pol) and Throws (Thr) represented by the
switch construction (where "M" indicates multiple poles (more than 2)).
The circuit (Cir) is identified by a code explained in the standard and
appendix pages (Table 2 of 61058-1).

IP - Degree of protection against ingress of solid objects and dust, and
harmful ingress of water.

DIS - Disconnect air gap across open contact, electronic is indicated by "e",
micro indicated "micro", FULL indicated with a measurement in mm.

30C cycle - the number of Endurance cycles completed with a temperature rise
less than 30C (on terminals).

55C cycle - the number of Endurance cycles completed with a temperature rise
less than 55C (on terminals).

SPCA - Identifies Special Conditions of Acceptability that must be considered
in the end product. A list of typical SPCOAs (represented with a
number) are found in the WOYR2 guide card. Conditions other than the
typical are represented with a letter and described in the specific
volume and section follow-up procedure description.

ed - The switch evaluation was completed to the indicated UL standard
revision date (such as 2009).

Products designated USR have been investigated using requirements contained
in UL Standard for Switches for Appliance, UL 61058-1 edition 4.

Products designated CNR have been investigated using requirements contained
in Canadian Standard CAN/CSA-C22.2 No. 61058-1-09.

Switch Declaration: Use table for general and indicate differences below.

Model	L4 and L5 series		
Ambient Temp. C	125/55	Type Reference	UT
Total Cycles	10E3	Glow Wire Temp. C	850
IP rating	40	PTI	250 IIIa
Electric shock Class	II	Over Voltage Category	II
Pollution degree Macro	3	Impulse withstand Volt	2500
Pollution degree Micro	3	Disconnect	Full
Actuation	Push	Test Circuit	1.2 & 1.3

Terminal	Type	Wire range	Flexible/ Rigid	Wire type	Prepared or Unprepared	Specific test amps
1, 2, 4, 5,	Tab terminal 6.3x0.8 and/or Tab terminal 4.8x0.8 and solder terminal	0.5- 2.5mm²	Flexible	/	Prepared and/or unprepared	/

NOMENCLATURE:

SX	L4	X	X	X	X	X	X	X	X	XXX	X
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII

I	Prefix: SX
II	Series designation: L4
III	Switch shape: 1: Body with fixing wings and flat lens / push button shape 2: Body with fixing wings and rounded lens / push button shape 3: Body with fixing wings and customizable push button shape 4: Body with fixing wings and rectangular lens with gasket 5: Body with fixing wings and oval lens with gasket L: Body shape for rear panel fixing
IV	Terminals: 1: Axial tab terminals 6.3 x 0.8 2: Axial tab terminals 4.8 X 0.8 4: Axial solder double pin terminals A: Orthogonal tab terminals 6.3 x 0.8 B: Orthogonal tab terminals 4.8 X 0.8 D: Orthogonal solder double pin terminals X: Combination of above
V	Electrical scheme (with reference to Table 2 of UL61058-1): 1: 1.2 2: 1.3 4: 1.2 momentary NO 5: 1.2 with independent lamp 6: 1.2 with dependent lamp 7: 1.3 momentary NO 8: 1.3 with lamp N: 1.2 momentary NO with independent lamp R: 1.3 momentary NO with lamp
VI	Electrical ratings: H and 9: 16(4)A 125/250Vac T 125/55 12(10)A 125/250Vac T 125/55 1/2HP 125Vac T 125/55 3/4HP 250Vac T 125/55 G: 16(4)A 250Vac T 125/55 12(10)A 250Vac T 125/55 3/4HP 250Vac T 125/55
VII	Body color: Any letter or number
VIII	Button / lens color: Any letter or number
IX	Button / lens mark color: Any letter or number
X	Button / lens mark symbol: Any letter or number
XI	Customization: Any letters or numbers
XII	None: Standard plastic material W or Y: GWIT 775 °C plastic material

SX	L5	X	X	X	X	X	XXX	X
I	II	III	IV	V	VI	VII	VIII	IX

I	Prefix: SX
II	Series designation: L5
III	Switch shape: 1: Body with large lateral grooves 2: Cover with panel fixing wings 3: Body with narrow lateral grooves 4: Body with narrow lateral grooves
IV	Terminals: 1: Axial tab terminals 6.3 x 0.8 2: Axial tab terminals 4.8 X 0.8 4: Axial solder double pin terminals A: Orthogonal tab terminals 6.3 x 0.8 B: Orthogonal tab terminals 4.8 X 0.8 D: Orthogonal solder double pin terminals X: Combination of above
V	Shaft external shape: Any letter or number
VI	Electrical scheme (with reference to Table 2 of UL61058-1): 1: 1.2 2: 1.3 4: 1.2 momentary NO 7: 1.3 momentary NO
VII	Electrical ratings: H and 9: 16(4)A 125/250Vac T 125/55 12(10)A 125/250Vac T 125/55 1/2HP 125Vac T 125/55 3/4HP 250Vac T 125/55
VIII	Customization
IX	None: Standard plastic material W or Y: GWIT 775 °C plastic material

FIGURE & ILLUSTRATIONS:

The following Figures & Illustrations are included in this Report.

Figure and Illustration Index		
Figure	1	Overall views of L4 and L5 Series
Illustration	1	Dimensional and electrical details of L4 Series
Illustration	2	Dimensional and electrical details of L5 Series

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Use - The switches covered by this Report are for use only in complete equipment where the suitability of the combination is determined by UL.

STANDARD CONDITIONS OF ACCEPTABILITY: (See Section General or LIS guide Page)

SPECIAL CONDITIONS OF ACCEPTABILITY: (See section General or LIS guide Page)

Specific Conditions of Acceptability should be identified in page 1 column SPCA. Below are the conditions that apply to this description, items 1 to 8 or unique conditions are identified by a alphabetical letter.

- A. IP 40 - for accessible parts and enclosure of the end product enclosure when mounted or installed according to the manufacturers directions. Test material thickness 0.5-2.3 mm. Internal parts were not evaluated for IP ratings and must be considered in the end product.
- B. The tests were conducted with wire size 14AWG stranded only.

CONSTRUCTION DETAILS:

Corrosion Protection - All ferrous metal parts are protected against corrosion by plating, painting, galvanizing or equivalent.

Spacing - Spacing between uninsulated live-metal parts of opposite polarity and also those parts and dead-metal parts, including openings for mounting screws have been evaluated to the requirements of the standard.
Spacing - Spacing between uninsulated live-metal parts of opposite polarity and also those parts and dead-metal parts, including openings for mounting screws have been evaluated to the requirements of the standard.

Clearance - These spacings have been judged on the basis of the required clearances in Table 22. The clearance requirements are based on the following parameters.

TABLE: Clearance Measurements						
distance under consideration	Insulation Type	Phase-to-Ground System Voltage	Overvoltage Category	Pollution Degree	Rated Impulse Voltage (V)	Clearance (mm)
Between Live Parts and User-Accessible Parts	Reinforced	250	2	3	2.5 (declared)	Req: 3.0 Meas: > 3.0
Between Live Parts Separated by the opening of the Contacts	Full disconnection	250	2	3	2.5 (declared)	Req: 1.5 Meas: > 3.0
Between Live Parts of opposite polarity	Functional	250	2	3	2.5 (declared)	Req: 1.5 Meas: > 1.5

Spacings were measured at the following locations:			
C: Between Live parts (Terminals) and Accessible part (Push Button)			
D: Between contacts			
Table 22 - 24	Creepage distance Cd and clearance Cl across:	MIN Required Cd (mm)	MIN required Cl (mm)
Locations	Functional, sealed or encapsulated	X	X
A	Functional,	3.2	1.5
B	Basic	4.0	1.5
-	Supplementary	4.0	1.5
C	Reinforced	8.0	3.0
-	Full disconnection	3.2	1.5
D	Micro disconnection	3.2	N.A.