

Certificate of Conformity

Number: C211-0008/16 **Project file:** C20160107

Product: Control Switches and Indicator Lights

Type reference: SERIJA 101

Trademark: ELTEN

Applicant: ELTEN d.o.o.
Gasilska pot 3, SI-1230 Domžale, Slovenia

Manufacturer: ELTEN d.o.o.
Gasilska pot 3, SI-1230 Domžale, Slovenia

Place of manufacture: ELTEN d.o.o.
Gasilska pot 3, SI-1230 Domžale, Slovenia

This certificate is granted subject to the SIQ's rules on product certification. SIQ certifies the conformity of the products with the requirements of the listed standards.

Ratings: See pages 2 and 3

Standard: SIST EN 60947-5-1:2005 + A1:2009 (EN 60947-5-1:2004 + A1:2009)

Test report: T211-0052/13

Remarks: This certificate shall apply to the products identical to the tested sample and shall remain valid for the period of 3 years until 2019-02-22 or until the validity date of the listed standards, whichever occurs earlier.

Date: 2016-02-22

Authorized signature:

Bojan Pečavar



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Following types are included in this certificate:

1. Krmilna stikala / Control Switches

1.1 Kontaktni element / Contact Blocks:

- kontaktni element z dvojnimi prekinjanjem / Contact element with double gap:
 - EC/NO,
 - EC/NO-PP,
 - EC/NC

1.2 Prožilni mehanizem / Actuating means:

- pritisna tipka / Push-button: tip / type ER, ERR
- pritisna tipka "pritisni-pritisni" / push-button "Push-Push": ER/PP
- dvojna tipka start-stop / Dual push-button: tip / type EPD/0-1, EPDR/0-1
- dvojna tipka s puščico (+ stop tipka) / Dual push-button with arrow indicator (+ stop button): tip / type EPD/F, EPD/FS
- gobasta pritisna tipka / Mushroom button: tip / type EF/30, EF/40,
- gobasta gibljiva tipka / Mushroom-head button wobble: tip / type EFBA
- gobasta tipka s ključem / Mushroom-head button with key reset: tip / type EFC
- gobasta zaskočna tipka / Mushroom latched button: tip / type EFB/30, EFB/40, EFB/60
- gobasta tipka, zaskočna v končni legi / Mushroom-head button with lock after interlock in end position EFBC
- gobasta tipka zaskočna "pritisni-pritisni" / Mushroom-head button "push-push": tip / type EFB/PP
- svetleča tipka / Illuminated push-button: tip / type ERL
- svetleča tipka "pritisni-pritisni" / Illuminated push-button "push-push": tip / type ERL/PP
- svetleča dvojna tipka start-stop / Illuminated dual push-button: tip / type EPDL/0-1, EPDLR/0-1
- svetleča dvojna tipka s puščico / Illuminated dual push-button with arrow indicator: tip / type EPDL/F
- svetleča gobasta tipka / Illuminated mushroom button: tip / type EFL
- svetleča gobasta zaskočna tipka / Illuminated latched push-button: tip / type EFBL
- svetleča gobasta zaskočna tipka "pritisni-pritisni" / Illuminated latched push-button "push-push": tip / type EFBL-PP
- vrtilno stikalo / rotary selector switch: tip / type ES
- vrtilno stikalo s ključem / rotary selector key switch: tip / type ESC
- svetleče vrtilno stikalo / Illuminated rotary selector switch: tip / type ESL

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1.3 Tehnični podatki / Technical data:

Kategorija uporabe / Utilization category: AC 15 Kontaktni elementi / Contact elements: NC, NO

Nazivni delovni tok I_e / Rated operational current: 4,5 A

Nazivni termični tok I_{the} / Conventional enclosed thermal current I_{the} : 12 A

Nazivna frekvenca / Rated frequency: 50/60 Hz

Nazivna delovna napetost U_e / Rated operational voltage: 230 V ac

Nazivna izolacijska napetost U_i^* / Rated insulation voltage U_i^* : 660/440/250 V

* U_i : - krmilno stikalo / control switch: $U_i=660V$

- kombinacija / combination; stikalo-signalna svetilka / switch – signal lamp: $U_i=250 V$

- kombinacija / combination; stikalo poleg stikala / switch – switch: $U_i=440 V$

Zaščita kratkostičnega toka / Kind of external protective device: 10 A varovalka / fuse gL-gG

Električna trajnost / Electrical durability: 100 000 cycles

Mehanska trajnost / Mechanical durability:

- 3 000 000 cycles: tip / type ER, ERL, EFL, EFBA

- 500 000 cycles: tip / type EFB, EFBL

- 100 000 cycles: tip / type ES, ESC

- 30 000 cycles: tip / type ESL

Stopnja mehanske zaščite / Degree of mechanical protection IP 40:

tip / type EPD, EPDR

Stopnja mehanske zaščite / Degree of mechanical protection IP 55:

tip / type: ER, ERR, EF, ERL, EFL, ES, ESL, ESC, EFB, EFBA, EFBC, EFBL

Stopnja mehanske zaščite / Degree of mechanical protection IP65 and IP67:

tip / type: EFB, EFC, ES, ESL, ESC, ER z zašč. kapo / with protection cap ERPR,

EPD z zašč. kapo / with protection cap ERPD, EPDR z zašč. kapo / with protection cap ERPDR

ERL z zašč. kapo / with protection cap ERPL,

EF Φ 40, EFL Φ 40, EFBL Φ 40, EFB, EFBC z zašč. kapo / with protection cap ERPF

2. Signalne svetilke / Signal lamps

Svetilka / pilot light: tip / type EL, ELE

Žarnica / Bulb BA9s: max 2 W

Nazivna napetost / Rated voltage: max. 60 V

Transformator / Transformer: 230/6 V 50/60 Hz, žarnica / lamp: 0,6 – 2 W

Stopnja mehanske zaščite / Degree of mechanical protection: IP 65 and IP67

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