



Product Service

# CERTIFICATE

No. Z10 068636 0036 Rev. 01

**Holder of Certificate:** Leuze electronic GmbH + Co.KG  
In der Braike 1  
73277 Owen/Teck  
GERMANY

**Certification Mark:**



**Product:** Safety components  
Safety Interlocks

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** LO101315T

**Valid until:** 2028-04-18

**Date,** 2023-08-17

( Peter Weiß )



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**Parameters:** Operating Voltage: 24 Vdc  $\pm$ 10%  
 Ambient temperature: -20°C ... +50°C  
 Max actuation frequency: 600 operation cycles / hour  
 Max. holding force Fzh: 1615 N  
 Degree of protection: IP67/IP69K

**Tested according to:** 2006/42/EC  
 EN 60947-5-3:2013  
 EN 61508-1:2010 (SIL 2 / 3)  
 EN 61508-2:2010 (SIL 2 / 3)  
 EN 61508-3:2010 (SIL 2 / 3)  
 EN IEC 62061:2021 (maximum SIL 3)  
 EN ISO 13849-1:2015 (Cat 2 / 4, PL d / e)  
 EN ISO 14119:2013

**Model(s):** **L250-P-Series**  
 For nomenclature see next page

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## Nomenclature of L250-P Series

L250-Pabbbccccccdeee-ffff-ggg - hhhiii - (kkkk)  
with:

a	Inputs and outputs
2	Two safety outputs OS1 OS2, Inserted actuator signalling output O3, Locked actuator signalling output O4, Electro-magnet activation input IE1 and IE2
3	Two safety inputs IS1 IS2, Two safety outputs OS1 OS2, Inserted actuator signalling output O3, Locked actuator signalling output O4, Electro-magnet activation input IE1 and IE2 Reset input I3
4	Two safety inputs IS1 IS2, Two safety outputs OS1 OS2, Inserted actuator signalling output O3, Locked actuator signalling output O4, Electro-magnet activation input IE1 and IE2 Reset / programming input I3
5	Two safety inputs IS1 IS2, Two safety outputs OS1 OS2, Inserted actuator signalling output O3, Locked actuator signalling output O4, Electro-magnet activation input IE1 and IE2 Reset / programming input I3 EDM feedback input I5
x	any other configuration (one digit)

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**bbb Operating principle**

1SL	Locked actuator with de-energised solenoid. Mode 1: OS safety outputs active with locked guard.
1ML	Locked actuator with energised solenoid. Mode1: OS safety outputs active with locked guard.
2SL	Locked actuator with de-energised solenoid. Mode 2: OS safety outputs active with closed guard.
2ML	Locked actuator with energised solenoid. Mode 2: OS safety outputs active with closed guard.
3SL	Locked actuator with de-energised solenoid. Mode 3: first safe output active with inserted and locked actuator, second safety output active with inserted actuator.
3ML	Locked actuator with energised solenoid. Mode 3: first safe output active with inserted and locked actuator, second safety output active with inserted actuator.

**ccccccc Cable length in meters**

M12	Integrated M12 connector, no cable
CB	Special cable code
	<u>Examples:</u>
<i>CB02M12</i>	<i>Cable, length: 0.2m, with M12 connector</i>
<i>CB2</i>	<i>Cable, length: 2m</i>
<i>CB10</i>	<i>Cable, length: 10m</i>
...	...

**d Connection position**

S	Cable or connector, sideways
B	Cable or connector, at bottom

**eee Connection Type**

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V12	PVC cable 12x0,14 mm <sup>2</sup>
V8	PVC cable 8x0,34 mm <sup>2</sup> for standalone connection
P12	PUR cable, halogen-free, 12x0,14mm <sup>2</sup>
P8	PUR cable, halogen-free, 8x0,34 mm <sup>2</sup> for standalone connection
12	M12 connector, 12-pole
8	M12 connector, 8-pole, for stand-alone connections
8Y	M12 connector, 8-pole, for series connection with Y-connectors

## ffff Auxiliary release at front and back

blank	- Operating principle 1SL, 2SL and 3SL: Auxiliary release by means of screwdriver at front - Operating principle 1ML, 2ML and 3ML: Without auxiliary release at front
KY	Auxiliary release by means of key at front
PB	Emergency release at back
KYPB	Key release at front and escape release button at back

## ggg Actuator

blank	No actuator provided
SCA	Low level coded actuator AC-L250-SCA <small>the switch recognizes any type AC-L250-SCA actuator</small>
UCA	High level coded actuator AC-L250-UCA <small>the switch recognizes one single type AC-L250-UCA actuator.</small>

## hhh Actuator extraction force

blank	Actuator extraction force 20 N (standard)
E0	Actuator freely removable
E40	Actuator extraction force 40 N

## iiii Release button length (non-safety)



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blank	Max. 15 mm wall thickness (standard)
PB30	Max. 30 mm wall thickness
PB40	Max. 40 mm wall thickness
PB50	Max. 50 mm wall thickness

Other wall thicknesses on request

**kkkk Additional alphanumeric code (non-safety)**

An additional alphanumeric code could be added to product code for customer's non-electrical variations (e.g. color, special labeling, special packaging, non-safety firmware customization, etc.)