

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFICAT



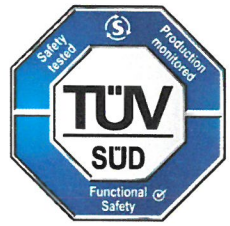
Product Service

# CERTIFICATE

No. Z10 068636 0036 Rev. 00

**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. See also notes overleaf.

**Test report no.:** PM90210T

**Valid until:** 2023-08-21

**Date,** 2019-06-06 ( Christian Dirmeier )



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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 62061:2015/A2:2015 (SILCL 2 / 3)  
EN ISO 13849-1:2015 (Cat 2 / 4, PL d / e)  
EN ISO 14119:2013

**Factory(ies):** 075157

**Model(s):** L250-P-Series

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## Nomenclature of L250-P Series

L250-Pabbbccccccdeeee-ffff-ggg - hhhiii - (kkkk)

with:

<b>a</b>	<b>Inputs and outputs</b>
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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## 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.

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## Cable length in meters

- M12 Integrated M12 connector, no cable
- CB Special cable code  
Examples:
- CB02M12 *Cable, length: 0.2m, with M12 connector*
- CB2 *Cable, length: 2m*
- CB10 *Cable, length: 10m*
- ... ..

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## Connection position

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

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<b>eee</b>	<b>Connection Type</b>	
	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

<b>ffff</b>	<b>Auxiliary release at front and back</b>	
	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

<b>ggg</b>	<b>Actuator</b>	
	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>

<b>hhh</b>	<b>Actuator extraction force</b>	
	blank	Actuator extraction force 20 N (standard)
	E0	Actuator freely removable
	E40	Actuator extraction force 40 N



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**iiii Release button length (non-safety)**

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.)