



Product Service

# CERTIFICATE

No. Z10 075157 0025 Rev. 03

**Holder of Certificate:** Pizzato Elettrica s.r.l.  
Via Torino 1  
36063 Marostica (VI)  
ITALY

**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.:** PM90210T

**Valid until:** 2024-04-26

**Date,** 2021-12-15

( Christian Dirmeier )

# CERTIFICATE

No. Z10 075157 0025 Rev. 03

**Parameters:** Operating Voltage: 24 Vdc  $\pm 10\%$   
Ambient temperature:  $-20^{\circ}\text{C} \dots +50^{\circ}\text{C}$   
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 62061:2005/A2:2015 (up to SILCL 3)  
EN ISO 13849-1:2015 (Cat 2 / 4, PL d / e)  
EN ISO 14119:2013

**Model(s):** **NS locking switch**  
**NS abcd1efg-hhhiiiijjkkkkllllmmmm**

with:

**a Safety Output Activation functioning mode**

D: spring-locked guard, 'Mode 1': safety output active with guard locked  
E: spring-unlocked guard, 'Mode 1': safety output active with guard locked  
G: spring-locked guard, 'Mode 2': safety output active with guard closed  
H: spring-unlocked guard, 'Mode 2': safety output active with guard closed  
L: spring-locked guard, 'Mode 3': safety output OS1 active with guard locked, safety output OS2 active with guard closed  
M: spring-unlocked guard, 'Mode 3': safety output OS1 active with guard locked, safety output OS2 active with guard closed

**b Input, output and programming signals:**

2: Two safety outputs OS1 OS2, inserted actuator signaling output O3, locked actuator signaling output O4, electro-magnet activation inputs IE1/IE2  
3: Two safety inputs IS1 IS2, two safety outputs OS1 OS2, inserted actuator signaling output O3, locked actuator signaling output O4, electro-magnet activation inputs IE1/IE2, reset input I3  
4: Two safety inputs IS1 IS2, two safety outputs OS1 OS2, inserted actuator signaling output O3, locked actuator signaling output O4, electro-magnet activation inputs IE1/IE2 Actuator programming/reset input I3  
5: Two safety inputs IS1 IS2, two safety outputs OS1 OS2, inserted actuator signaling output O3, locked actuator signaling output O4, electro-magnet activation inputs IE1/IE2, Actuator programming/reset input I3, EDM feedback input I5

**c Front auxiliary unlock**

Z: Without auxiliary unlock  
A: Screw driver auxiliary unlock  
C: Modular screwdriver unlock  
E: Modular escape release  
S: Modular key lock  
T: Modular plug

# CERTIFICATE

No. Z10 075157 0025 Rev. 03

## d Rear auxiliary unlock

Z: Without auxiliary unlock  
C: Modular screwdriver unlock  
E: Modular escape release  
R: Remote escape release  
S: Modular key lock  
T: Modular plug

## 1: Fixed code

### e: Connection position

D: Side adjustable connection  
S: Axial connection

### f: Connection type

A: PVC cable - 12 x 0,14 mm<sup>2</sup>  
B: PVC cable - 8 x 0,34 mm<sup>2</sup>  
D: PUR halogen-free cable - 12 x 0,14 mm<sup>2</sup>  
E: PUR halogen-free cable - 8 x 0,34 mm<sup>2</sup>  
G: Railway cable EN 50306-4 - 12 x 0,14 mm<sup>2</sup>  
H: Railway cable EN 50306-4 - 8 x 0,34 mm<sup>2</sup>  
M: 12 poles M12 connector (male)  
P: 8 poles M12 connector (male) for "stand alone" connections  
Q: 8 poles M12 connector (male) for "Y cable" daisy chain connections  
R: double 12 poles M12 connector (male)  
S: 12 poles M23 connector (male)  
T: 19 poles M23 connector (male)

### g: Cable length in meters

K: Integrated M12 male connector (no cable)  
0: Special cable code (see optional code Zxxx)  
xxx: xxx m cable (e.g.: 0.1=0,1m cable length, 2=2m cable length, 10=10m cable length, etc.)

Optional codes:

### hhh Actuator

blank No actuator provided  
F40: provided with VN NS-F40 actuator with low coding level  
F41: provided with VN NS-F41 actuator with high coding level

### iiii Numerical code of control component configuration

Blank: no HMI extension  
N001 Configuration 001  
N002 Configuration 002  
N003 Configuration 003  
Nxxx Configuration xxx

### jjj Actuator extraction force

Blank standard value (20 N)  
E36: zero force extraction  
E37: higher extraction force (40 N)  
Other force extraction on request



Product Service

# CERTIFICATE

No. Z10 075157 0025 Rev. 03

## kkkk Release button length (Non Safety)

blank: wall thickness length max 15 mm (standard)

LP30: wall thickness length max 30 mm

LP40: wall thickness length max 40 mm

LP50: wall thickness length max 50 mm

Other wall thickness on request

## llll Remote escape release cable length

Blank: remote escape release cable length 5m (standard)

LCxx: other cable length

## mmmm 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.)