



Product Service

CERTIFICATE

No. Z10 075157 0025 Rev. 07

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, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: PM105885C

Valid until: 2029-12-04

Date, 2025-11-24

(Christian Dirmeier)

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Parameters:

Operating Voltage:	24 Vdc ±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 IEC 60947-5-2:2020/A11:2022
 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 13849-1:2023 (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
 R: spring-locked guard, 'Mode 1': safety outputs active with guard locked, with direct e.m. control
 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:

- Two safety outputs OS1 OS2, inserted actuator signaling output O3, locked actuator signaling output O4, electro-magnet activation inputs IE1/IE2
- 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
- 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
- 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
- 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, acknowledge input I5
- Two safety inputs IS1 IS2, two safety outputs OS1 OS2, inserted actuator signaling output O3, acknowledge status signaling output O4, electro-magnet activation inputs IE1/IE2, actuator programming/reset input I3, acknowledge input I5
- Two safety inputs IS1 IS2, two safety outputs OS1 OS2, inserted actuator signaling output O3, acknowledge status signaling output O4, electro-magnet activation inputs IE1/IE2, internal acknowledge input I3, external acknowledge input I5

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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

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 mm²
 B: PVC cable - 8 x 0,34 mm²
 D: PUR halogen-free cable - 12 x 0,14 mm²
 E: PUR halogen-free cable - 8 x 0,34 mm²
 G: Railway cable EN 50306-4 - 12 x 0,14 mm²
 H: Railway cable EN 50306-4 - 8 x 0,34 mm²
 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

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jjj: Actuator extraction force

Blank standard value (20 N)

E36: zero force extraction

E37: higher extraction force (40 N)

Other force extraction on request

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.)