User manual

LAD2 cable junction box

for connecting:

- **optoelectronic safety edges**
- **pass door switches**
- **slack rope switches**

on various control systems using the connected helix cable.

Explanation of symbols

This indication informs you of special features of the system.

A recommendation for optimum procedure.

Warning instructions - please read them carefully and comply with them in all respects.

Cable entry / installation

Cables can be inserted via the trapezoidal quick-change rubber inserts.
Please proceed as follows:

1. Remove rubber seal from insert.

2. Select matching seal for present cable cross-section.

3. If necessary, use suitable tool to break through the rubber seal .
Do not open any seals unused. Otherwise the LAD loses its tightness.

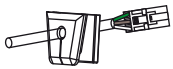
IP65 can be guaranteed by use of predefined cable outside diameters

connection cable: ø 4.4 ±0,1mm

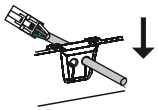
SIGNAL: ø 3.4 ±0,1mm

and professional assembling.

4. Insert cable



5. Push seal with cable into casing.



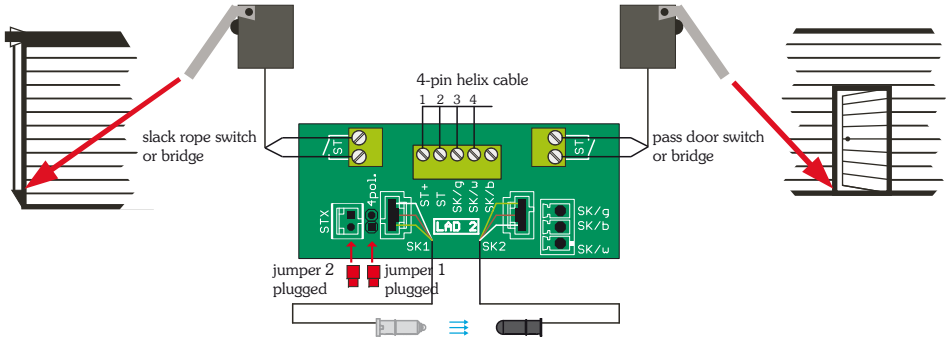
Cable entry/Installation

6. Plug in connector, see connection scheme

7. Put on casing lid, tighten screws.
Tightening the screws pushes the quick-change rubber inserts into the casing, which thus seal the LAD.

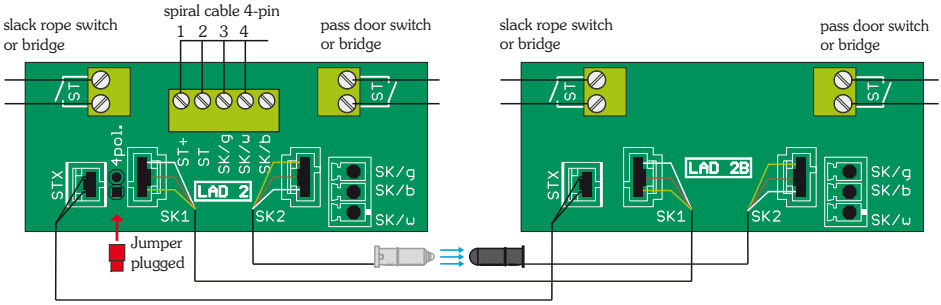
Connection scheme

1. single box LAD2 and 4-pin helix cable

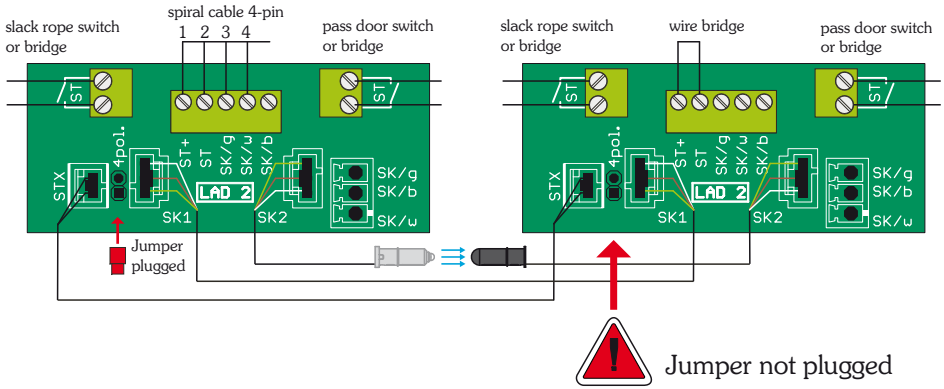


Connection scheme

2. two boxes LAD2 + LAD2B and 4-pin helix cable



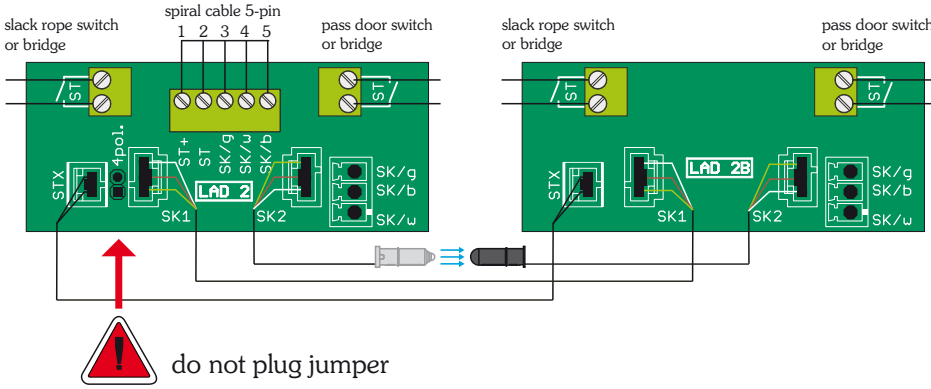
3. two boxes LAD2 + LAD2 and 4-pin helix cable



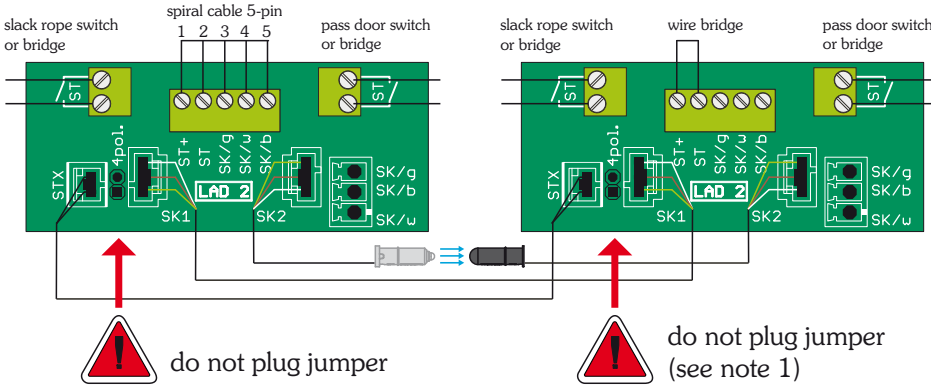
Note 1: When the jumper is used in the connection box, the slack rope switches/pass door switches are bridged in the main connection box. These contacts are then out of function despite the connected switches.

Connection scheme

4. two boxes LAD2 + LAD2B and 5-pin helix cable



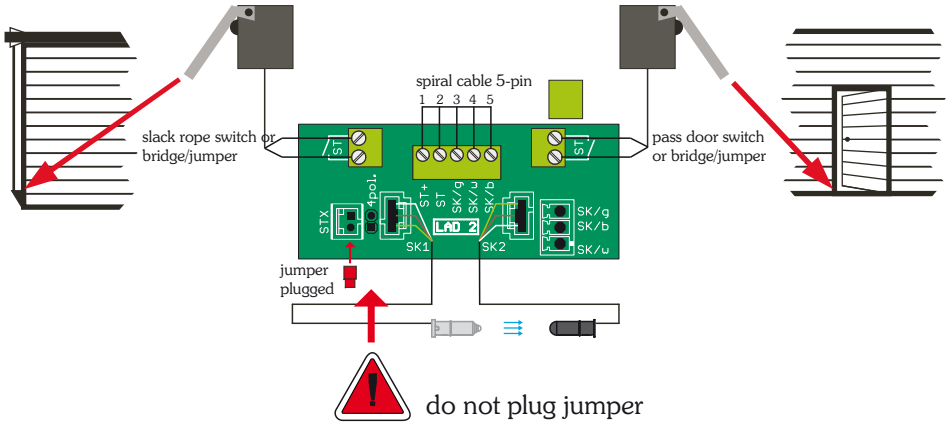
5. two boxes LAD2 + LAD2 and 5-pin helix cable



Note 2: If a jumper is used in connection with a 5-pin helix cable, the control is at risk of a short circuit. Use only with a 4-pin helix cable.

Connection scheme

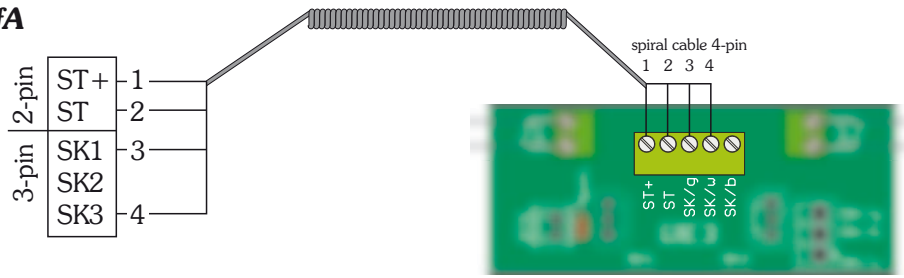
6. single box LAD2 and 5-pin helix cable



Note 2: If a jumper is used in connection with a 5-pin helix cable, the control is at risk of a short circuit. Use only with a 4-pin helix cable.

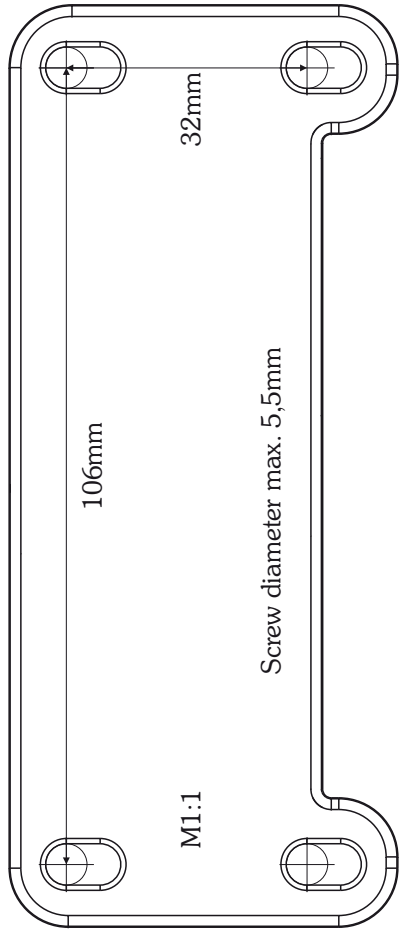
7. connection to control systems in the working environment

GfA



Drilling template

Size: 123x52x45mm³ (LxWxH), with screw connection height 122mm



Ordering details

Var. 3: cable junction box with screw terminals (5-pin), pass door switch/slack rope switch and optical safety edge
LAD 2-Var.3 1.113 780

Var. 2: cable junction box with integral circuit board for quick, reverse polarity protected connection of the optical safety edge with molex plug
LAD 2-Var.2 1.113 781

Var. 1: cable junction box with integral circuit board for quick, reverse polarity protected connection of the optical safety edge with molex plug and slack rope switch/pass door switch
LAD 2-Var.1 1.113 782

Module 4: cable junction box with AOS 124 safety proccessing unit
LAD2-module 4 1.114 624

connection box only to LAD2
LAD2B 1.113 716

Material PA6 GF30
Color black or light grey

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