SCHMERSAL

EN Operating instructions. . . . . .pages 1 to 2
Original

Content

1 About this document
1.1 Function 1
1.2 Target group: authorised qualified personnel. 1
1.3 Explanation of the symbols used 1
1.4 Exclusion of liability 1
1.5 General safety instructions 1

2 Product description
2.1 Ordering code 1
2.2 Purpose 2
2.3 Technical data 2

3 Mounting and electrical connection
3.1 Mounting 2
3.2 Mounting and connections. 2
3.3 Example for the assignment of the terminals: 2
3.4 General information for electrical connection. 2

4 Set-up and maintenance
4.1 Functional testing 2
4.2 Maintenance 2

5 Disassembly and disposal
5.1 Disassembly 2
5.2 Disposal 2

1. About this document

1.1 Function

This operating instructions manual provides all the information you need for the mounting, set-up and commissioning to ensure the safe operation and disassembly of the the product. The operating instructions must be available in a legible condition and a complete version in the vicinity of the device.

1.2 Target group: authorised qualified personnel

All operations described in this operating instructions manual must be carried out by trained specialist personnel, authorised by the plant operator only.

1.3 Explanation of the symbols used

Information, hint, note: This symbol is used for identifying useful additional information.

Caution: Failure to comply with this warning notice could lead to failures or malfunctions.
Warning: Failure to comply with this warning notice could lead to physical injury and/or damage to the machine.

1.4 Exclusion of liability

We shall accept no liability for damages and malfunctions resulting from defective mounting or failure to comply with this mounting and wiring instruction. The manufacturer shall accept no liability for damages resulting from the use of unauthorised spare parts or accessories.

For safety reasons, invasive work on the device as well as arbitrary repairs, conversions and modifications to the device are strictly forbidden; the manufacturer shall accept no liability for damages resulting from such invasive work, arbitrary repairs, conversions and/or modifications to the device.

1.5 General safety instructions

The user must observe the safety instructions in this operating instructions manual, the country specific installation standards as well as all prevailing safety regulations and accident prevention rules.

Further technical information can be found in the Schmersal catalogues or in the online catalogue on the Internet: www.schmersal.net.

2. Product description

2.1 Ordering code

This operating instructions manual applies to the following types:

ELDE.N-①-②-③-24VDC-④

No.	Option	Description
①	**Connection X1**	
	RD	red
	YE	yellow
	GN	green
	BU	blue
	WH	white
②	**Connection X2**	
	RD	red
	YE	yellow
	GN	green
	BU	blue
	WH	white
③	**Connection X3**	
	RD	red
	YE	yellow
	GN	green
	BU	blue
	WH	white
④	**LED version**	
		Standard LED
	2950	EMERGENCY STOP signalling (short LED version)

Not all type code combinations described can actually be delivered.

x.000 / 11.2018 / v.A. - 103008018-EN / B / 2018-11-16 / AE-Nr: 7357

2.2 Purpose

The LED module is suitable for use in illuminated signals without integrated LEDs and illuminated buttons of the E - product portfolio and N - product portfolio.

Through wiring and control of the corresponding described connections, different signalling colours for machine or switching conditions can be reproduced.

2.3 Technical data

General data:	
Type of illuminant:	LED
With integrated illuminant:	yes
Material of the enclosure:	glass-fibre reinforced thermoplastic
Mounting position:	random
Electrical data:	
Rated operating voltage U_e:	24 VDC
Operating current I_e:	18 mA … 26 mA per connection
Power consumption $P_{max.}$:	0.63 W per connection
Rated insulation voltage U_i:	400 V
Rated impulse withstand voltage U_{imp}:	4000 VAC
Mechanical data:	
Connection:	screw terminals
Tightening torque of the screw terminals:	< 0.8 Nm
Cable section:	
- solid wire	2 x (0.5 mm² … 2.5 mm²)
- stranded wire with conductor ferrules	2 x (0.5 mm² … 1.5 mm²)
Mounting:	Pluggable
Ambient conditions:	
Ambient temperature:	−25 °C … +75 °C
Protection class - connections:	IP20
Approvals:	cULus

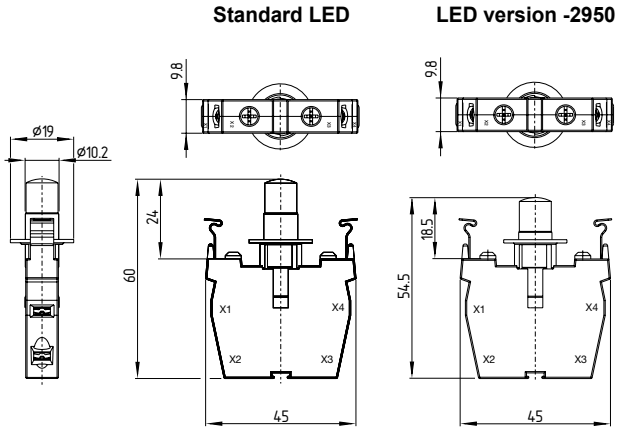
3. Mounting and electrical connection

3.1 Mounting

The mounting of the 3 colour LED module is just like mounting of the control device in the middle of the mounting flange by simply snapping open the holding clips.

3.2 Mounting and connections

All measurements in mm.



3.3 Example for the assignment of the terminals:

ELDE.N- ① - ② - ③ -24VDC
ELDE.N-RD-GN-YE-24VDC

X1	①	RD (red)
X2	②	GN (green)
X3	③	YE (yellow)
X4		GND = measured ground- / reference potential terminal

3.4 General information for electrical connection

The electrical connection may only be carried out by authorised personnel in a de-energised condition.

The simultaneous driving of several inputs creates a colour mixture, which may cause incorrect interpretation of the switching condition of the machine or system.
The simultaneous driving of the inputs can cause overheating and failure of the indicator.

4. Set-up and maintenance

4.1 Functional testing

The device should be checked in all its switching conditions with respect to colour reproduction. The following conditions must be previously checked and met:
1. The installation is executed according to the instructions
2. The connection is executed correctly
3. The electrical lines are correctly connected

4.2 Maintenance

In case of correct installation in accordance with the instructions described above, the component requires little maintenance. For use in extreme conditions, we recommend routine maintenance as follows:
1. Check the correct fixing
2. Remove particles of dust and soiling
3. Check cable entry and connections

5. Disassembly and disposal

5.1 Disassembly

The 3 colour LED module must be disassembled in a de-energised condition only.

5.2 Disposal

The 3-colour LED module must be disposed of in an appropriate manner in accordance with national regulations and laws.

K. A. Schmersal GmbH & Co. KG
Möddinghofe 30, D - 42279 Wuppertal
Postfach 24 02 63, D - 42232 Wuppertal

Phone: +49 - (0)2 02 - 64 74 - 0
Telefax: +49 - (0)2 02 - 64 74 - 1 00
E-Mail: info@schmersal.com
Internet: http://www.schmersal.com