Mounting and operation instructions MSÜ 3S

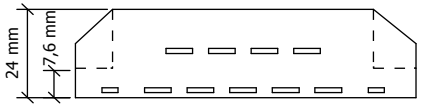
Target group: Skilled electricians

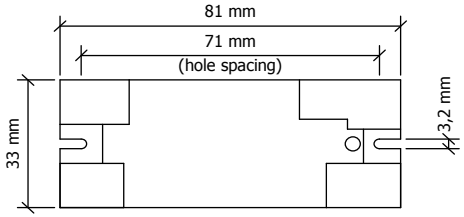
These operating instructions correspond to the date of publishing.
The contents are not subject matter of the contract, but serve only as information.
Technical or content-related changes are subject to change without notice.
The module corresponds with valid regulations and is state of the art at the time of the development so that a safe operation is guaranteed.
The installation and assembly of electrical equipment must be only carried out by a skilled electrician.

The ambient air has to be clean as the module only works properly up to contamination class 1.

Casing material PBT-T881 / Heat deflection temperature according to D648 up to 168°C / Flammability according to UL94-V0.

To securely mount the address module, please use only mounting material that won't harm the casing and/or the PCB, otherwise the warranty claim expires immediately.

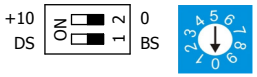




Permissible temperature range

1-5:
1 – SV-input 230/216V AC/DC* (supply by the safety light unit)
2 – Output to the safety light 230/216V AC/DC *
3 – Addressing according to the label (see examples)
4 – AV switching input (SE) on the MSÜ 3S component
5 – Status LED
* Attention, interchange of the input/output will destroy the component.
Only AC voltage is applied in systems without a battery.

3 – Examples of addressing (Zehner = Tens / Einer = Units / Adresse = Adress)



Zehner		Einer	= Adresse
0	+	1	= 1
+10	+	0	= 10
+10	+	3	= 13
0	+	0	= 20

4 – AV switching input (SE) on the MSÜ 3S component
The AV switching input (SE) for switching the light with the general lighting via the MSÜ 3S, the switching input switches on the light with it by an optocoupler, max. 230V, current consumption max. 10mA.

5 – Signal states of the LED:
- LED on = light ON and current flow GREATER than calibration value => light on and OK
- LED ⎍⎍⎍⎍⎍ = light ON and current flow SMALLER than calibration value
  => light on but bulb defective or not calibrated
- LED ⎍⎍⎵⎍⎍ = calibration of the light active
- LED ⎍⎍⎍⎍⎍⎍⎍⎍ = test mode active
- LED off = light switched off

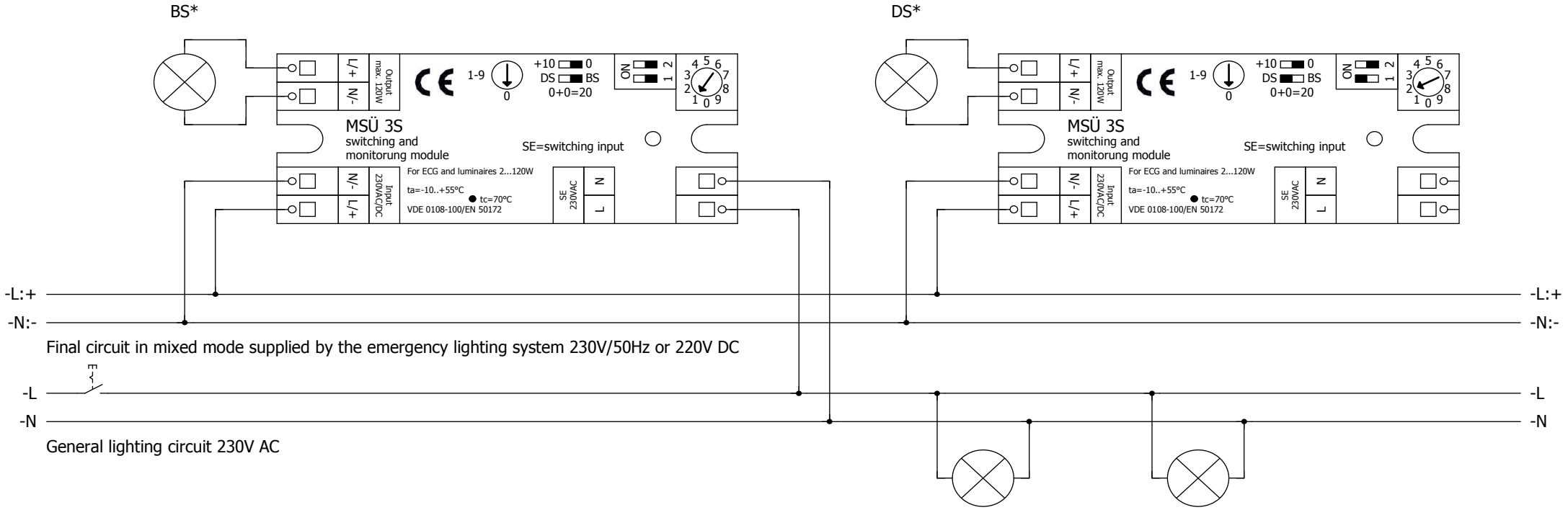
The module is provided with an automatic load detection which must be calibrated once by the master at first installation or when replacing.
For calibration, refer to the master menu chapter 5.5.3 or quattro Menu chapter 7.7.

Common switching of general and safety lighting with MSÜ 3S

As soon as the circuit of the general lighting is switched on, the switching input (SE) will switch on the luminaire by an optocoupler inside the module(max. 230V AC - max. 10mA).
The output voltage is always generated by the emergency lighting system, the gerneral lighting voltage only serves as control voltage.

DIP switch 1: OFF for non.maintained luminaire (BS)
DIP switch 1: ON for maintained luminaire (DS)

DIP switch 2: OFF for luminaire adresses 1-9
DIP switch 2: ON for luminaire adresses 10-19



MSÜ 3S Connection terminals:
Single wire 0.5 ... 1.5 mm²,
Fine-strand with wire-end ferrule with plastic collar 0.5 ... 1 mm²,
Flexible with wire end ferrule without plastic collar 0.5 ... 1 mm²,
Stripping length 9 ... 10 mm.

Attention!
The luminaire adresses must be set correctly. Double adressing must be avoided. Other than that the luminaire(s) have to be opened up or even dismantled again in certain circumstances. The electronic monitoring module MSÜ 3-Dali is only suitable for operation with a corresponding safety lighting system.

*BS = non-maintained luminaire
*DS = maintained luminaire