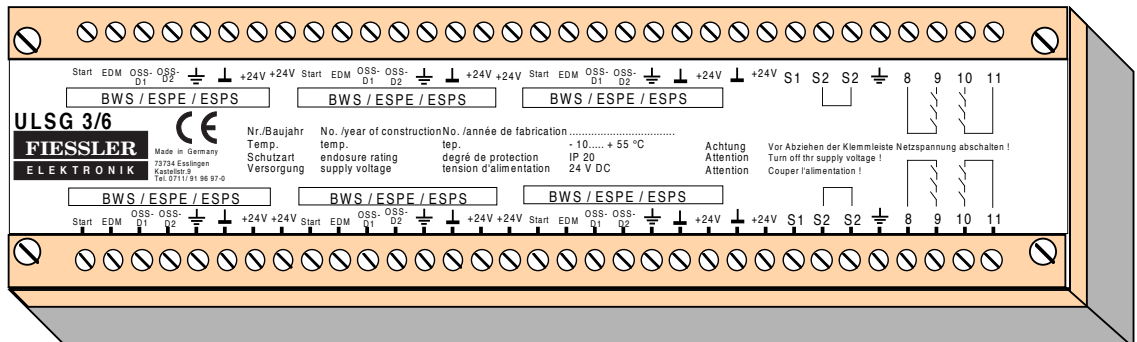
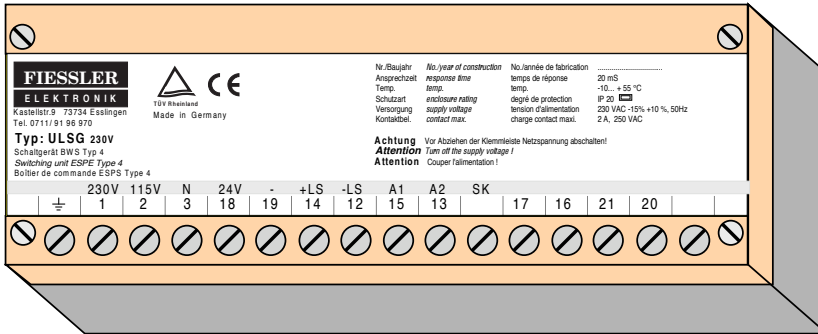


# Power supply ULSG with potential-free relay contacts



Power supply for safety light curtains / -grids

Supply voltage 24 VDC, 115 VAC or 230 VAC

Potential-free force-guided normally open relay contacts

Connection of up to 6 safety light curtains

Easy-to-install serial connections with other safety sensors

Enables the connection to common safety bus nodes

Provides a cost-saving solution for all cases without power supply

Offers high switching performance



Typ 4  
EN 61496



DIN EN ISO 9001  
Reg.Nr. 96007



#### Application

The switching unit ULSG provides potential-free, force guided, normally open relays and a flexible power supply (for 230 V AC-, 115 V AC or 24 V DC connection). The ULSG fulfils the power-failure bridging standard of 20 ms specified by EN 60204 and is therefore suitable for supplying the safety light curtains ULVT / BLVT / TLVT / ILVT, ULCT / BLCT / TLCT / ILCT and the proximity laser scanner FLSC with a voltage.

With the switching unit ULSG 3/6 the connection of up to 6 ULVT / BLVT safety light grids is possible.

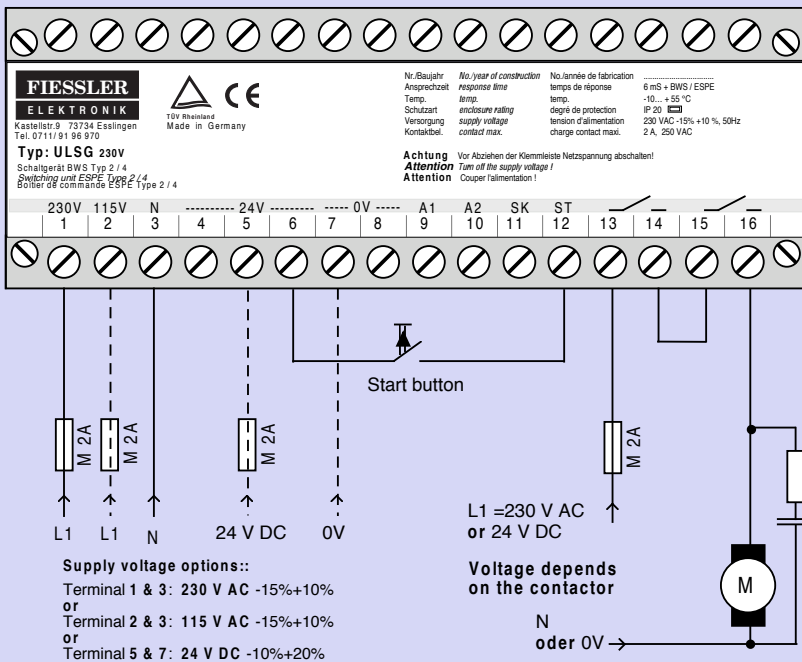
With the switching unit series ULSG there are the following functions possible;

- ULSG **with** restart interlock / **with** external device monitoring (EDM)
- ULSG **with** restart interlock / **without** external device monitoring (EDM)
- ULSG **without** restart interlock / **without** external device monitoring (EDM)
- ULSG 3/6: connection up to 6 safety light curtains (24 V DC)
- ULSG 3/6: connection **with** restart interlock / **with** external device monitoring (EDM)
- ULSG 3/6: connection **with** restart interlock / **without** external device monitoring (EDM)

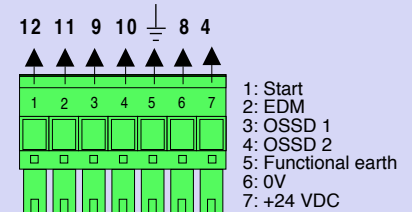
#### Connection diagram

##### Connection example:

ULSG with restart interlock / without external device monitoring (EDM).

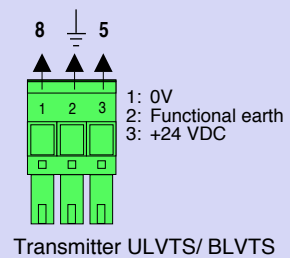


Connection of safety light curtain ULVT: (safety category 4)



Receiver ULVTE / BLVTE

- Set operating mode:  
 - With contactor control  
 - With restart interlock  
 - Synchronized outputs



#### Technical data

<b>Safety category:</b>	4 according to EN 954-1 and IEC 61496 or EN 61496
<b>Response time:</b>	6 ms
<b>Housing design:</b>	Black insulating material, beige cover
<b>Fastening:</b>	Snap-on fastening on a hat rail (DIN EN 50022-35), screw fastening
<b>Protection type:</b>	IP 20
<b>Protection class:</b>	Protective insulation
<b>Ambient operating temperature:</b>	-10 to 55 °C
<b>Storage temperature:</b>	-25 to 70 °C
<b>Supply voltage:</b>	ULSG: 230 V AC/50Hz +10% -15%, 115 V AC/50Hz +10% -15%, or 24 V DC, +20% -10% ULSG3/6: 24 V DC, +20% -10%
<b>Outputs:</b>	The output contacts are potential-free, monitored (only in conjunction with ULVT / BLVT), force-guided and normally open with a maximum loading capacity of 2 A/250 V AC or 60 V DC, 30 W
<b>Inputs:</b>	EDM and start button: 0 V to 24 V DC ±20% (no extraneous voltage!)
<b>Electrical connection:</b>	Plug-in terminal strip
<b>Connection cable:</b>	max. 1,5 mm <sup>2</sup>