





Model Number

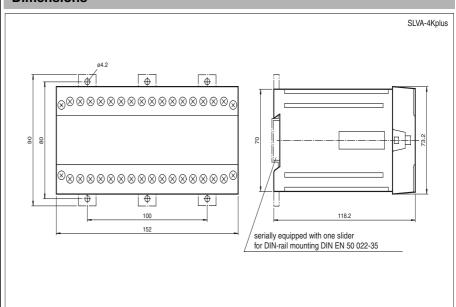
SLVA-4Kplus 230VAC-RM

Safety control unit

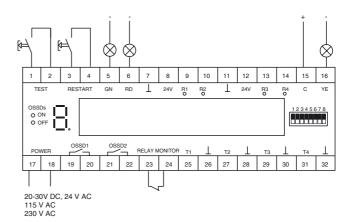
Features

- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Evaluation device for safety thrubeam sensors SLA, for safety light grids SLP and for 2 channel safety devices (emergency off)
- Operating mode can be selected by means of DIP switches
- Start/Restart disable
- Relay monitor
- Pre-fault indication
- Clearly visible LED functional display
- 7-segment diagnostic display
- Safety outputs OSSD, external status displays OSSD

Dimensions



Electrical connection



Technical data

Operating modes

The mode of operation is adjusted according to the description of the item when the unit leaves the factory. The user can change the mode of operation. After changing the mode of operation, before the system is enabled, a test of the effectiveness of the selected setting must always take place.

You can adjust the modes of operation of the SLVA-4Kplus with the DIP switches. The DIP switches are accessible by removing the transparent covering on the upper side of the analyser unit.

Two switches should each be moved into the same position.

Switch	Position	Mode of operation
1 + 5	OFF	Without startup/restart disable (restart)
	ON	With startup/restart disable (restart)
2+6	OFF	Without relay monitor (EDM)
	ON	With relay monitor (EDM)
3 + 7	OFF	Optical barriers on channels 3 and 4
	ON	Emergency off on channels 3 and 4
4 + 8	OFF	Emergency off static
	ON	Emergency off pulsed

If the DIP switches are turned on during operation, the analyser unit switches into secure state (outputs turned off) and the 7-segment displays shows a P. In addition, output 15/16 flashes (ready for startup).

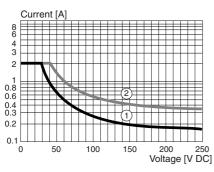
Indicator lamps and 7-segment diagnostic display

The positions of the indicator lamps of the analyser units are illustrated schematically below. The numeric display indicates the operating and error states of the BWS. In the error state, the decimal point of the 7-segment display flashes. The R1-R4 indicator lamps (yellow) display the receiver status of the light barriers or emergency off circuit that are connected. The OSSDs indicator lamp (ON = green, OFF = red) displays the status of the safety outputs.

LED	Red	OSSD outputs turned off
	Green	OSSD outputs turned on
	Yellow	Indicator lamps for channels (1-4)
		On = lightbeam free or emergency off circuit on
		Flashing = light beam free, minimum function reserve not met
		Off = light beam interrupted or emergency off circuit turned off
7-segment display		Protective field free, OSSD on (running light)
		Protective field interrupted
	8	Protective field free, OSSD off, ready for startup
	Ε	System error
		DIP switch setting incorrect
		Short circuit in transmitter connection
	Ε	Error in simultaneity condition for emergency off channel
	Ξ	Error in an external relay
	Β	DIP switches are turned on

Diagrams

Load limit curve of relay OSSD for DC-current



- 1) inductive load, L/R = 40 ms
- 2) ohmic load