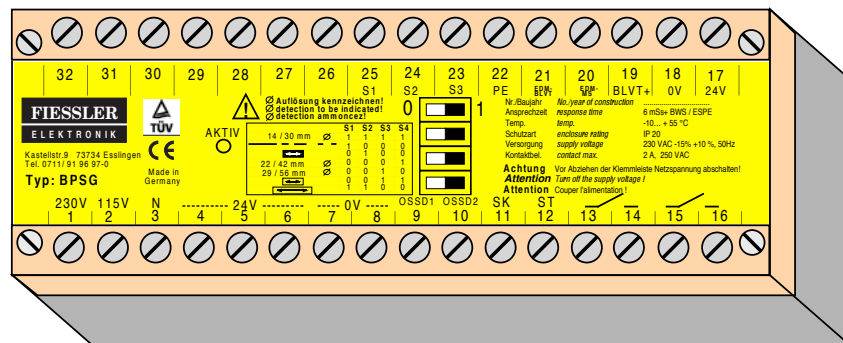
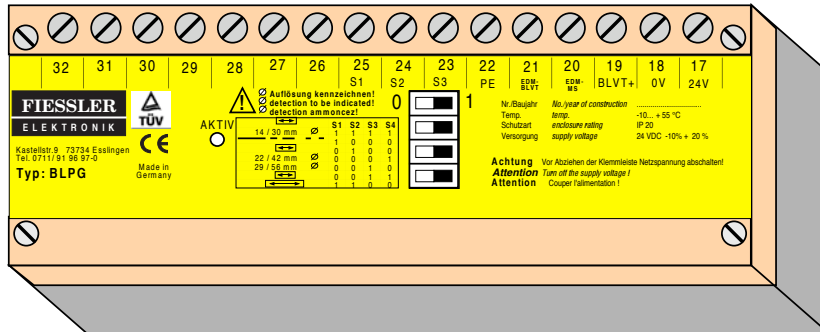


Blanking-programming unit BLPG and BPSG



Easy programming of Blanking safety light curtains

Supply voltage 24 VDC, 115 VAC or 230 VAC

Potential-free force-guided normally open relay contacts

Selector switch mode

Programming unit can be removed once programming is complete

Blanking-program will be stored directly in the receiver

No need of any PC for programming

Set the desired blanking mode by using the DIP switches



DIN EN ISO 9001
Reg.Nr. 96007



optional



Typ 4
EN 61496



Application

BLPG: Blanking programming unit

A key switch is used to enable programming. The programming unit is not absolutely necessary for operating the BLVT and can be removed again once programming is complete.

Mode :

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

- external **selector switch** in conjunction with the **BLPG / BPSG**
- up to **5 different blanking functions** can be stored in, and recalled from, the BLVT light curtain

How to program :

1. Set the desired blanking mode using the DIP switches (refer to the BLVT operating manual).
2. Install barriers in the protective field. These are blanked after programming. **The first beam (as seen from the plug) must not be dark, as it is needed to synchronise the transmitter and receiver.** If beam 1 is covered during teach-in, the light curtain assumes the error state and the orange and yellow LEDs on the receiver start to flash rapidly (about 4 times per second).
3. Turn the key switch to the programming setting. Wait until the controller's green LED indicates readiness for programming (about 2 seconds).
4. Remove the key switch. Programming is complete once the green LED is deactivated.
5. Test the protective field with an appropriate rod. At any point in the field, this rod must deactivate the outputs. If the blanked areas do not cover the entire protective field, additional protective grids need to be installed.
6. Affix a sign indicating the current resolution.
7. The light curtain is now ready for operation. The dynamic blanking and reduced resolution operating modes are indicated by slow flashing (about once per second) of the adjustment aid and restart interlock LEDs on the receiver (with the protective field clear).

BPSG: Blanking programming unit and controller

Like type BLPG, but also with a voltage supply and force-guided relay with potential-free outputs.

Blanking modes:	Dip-switch			
	S1	S2	S3	S4
No blanking	1	1	1	1
Static blanking (up to 6 sectors possible)	1	0	0	0
Static blanking with 1-beam reduced resolution	1	0	0	1
Static blanking with 2-beam reduced resolution	1	0	1	0
Dynamic blanking (only 1 area possible)	0	1	0	0
Dynamic blanking with 1-beam reduced resolution	0	1	0	1
Dynamic blanking with 2-beam reduced resolution	0	1	1	0
1-beam reduced resolution	0	0	0	1
2-beam reduced resolution	0	0	1	0
Ignore 1 beam only once (full resolution for the remaining protective field)	0	0	1	1
Ignore 2 beams only once (full resolution for the remaining protective field)	1	1	0	0

Technical data

Functions:	11 BLVT-Blanking modes programmable, up to 5 different blanking functions can be stored in, and recalled from, the BLVT light curtain
Safety category:	4 according to EN 954-1 and IEC 61496 or EN 61496 (only in connection with the light curtain BLVT)
Response time:	6 ms
Housing design:	Black insulating material, beige cover
Fastening:	Snap-on fastening on a hat rail (DIN EN 50022-35), screw fastening
Protection type:	IP 20
Protection class:	Protective insulation
Ambient operating temperature:	-10 to 55 °C
Storage temperature:	-25 to 70 °C
Supply voltage:	BLPG: 24 V DC + 20 % - 10 % BPSG: 230 V AC/50Hz +10% -15%, 115 V AC/50Hz +10% -15%, 24 V DC, + 20 % - 10 %
Outputs:	The output contacts are potential-free (only BPSG), 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 EDM and start button: 0 V to 24 V DC ±20% (no extraneous voltage!)
Inputs:	Plug-in terminal strip
Electrical connection:	max. 1,5 mm ²