

Plug-on safety controller for safety-light barriers

Muting controller PLSG 1

Muting controller PLSG 2

Compact multifunction safety controller PLSG 3

The controller of the series PLSG save money:

- Wiring at one side

- Reduction of cable material
- Reduction of installation expenses
- Saving on cabinet space
- Integrated Muting lamp

- Direct wiring of safety components

- Saving on additional safety controller for Emergency Stop, door limit switch, two hand control or PSDI mode

- Minimal programming effort

- no need of software
- short starting up time
- fast replacement in case of malfunction

Plug-on safety controller PLSG

Safety light curtain



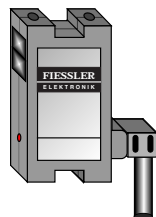
Safety limit switch



Emergency stop



Add. Muting sensors



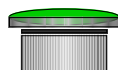
Add. Muting lamp



Two hand control



Start button



PLSG → Optimal functionally with minimal effort

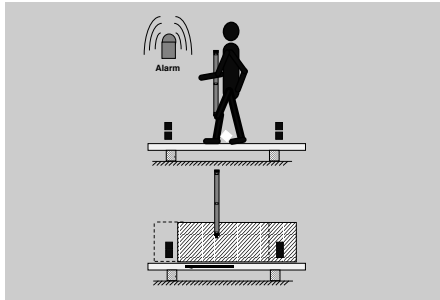
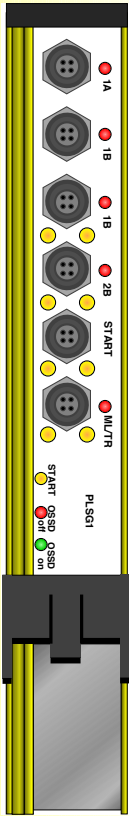
PLSG 1

Range of functions PLSG 1

- Override function (not selectable)
- Restart interlock (not selectable)
- EDM (external device monitoring)
- Muting time monitoring (fix 13,5 h)

The Muting function enables the safety for a person with the unrestricted flow of material at the same time

- Safeguarding of the pedestrian access of an automatic production plant
- Safeguarding of a gateway entrance to a production area
- Safeguarding of a palletizer
- Material-handling technology



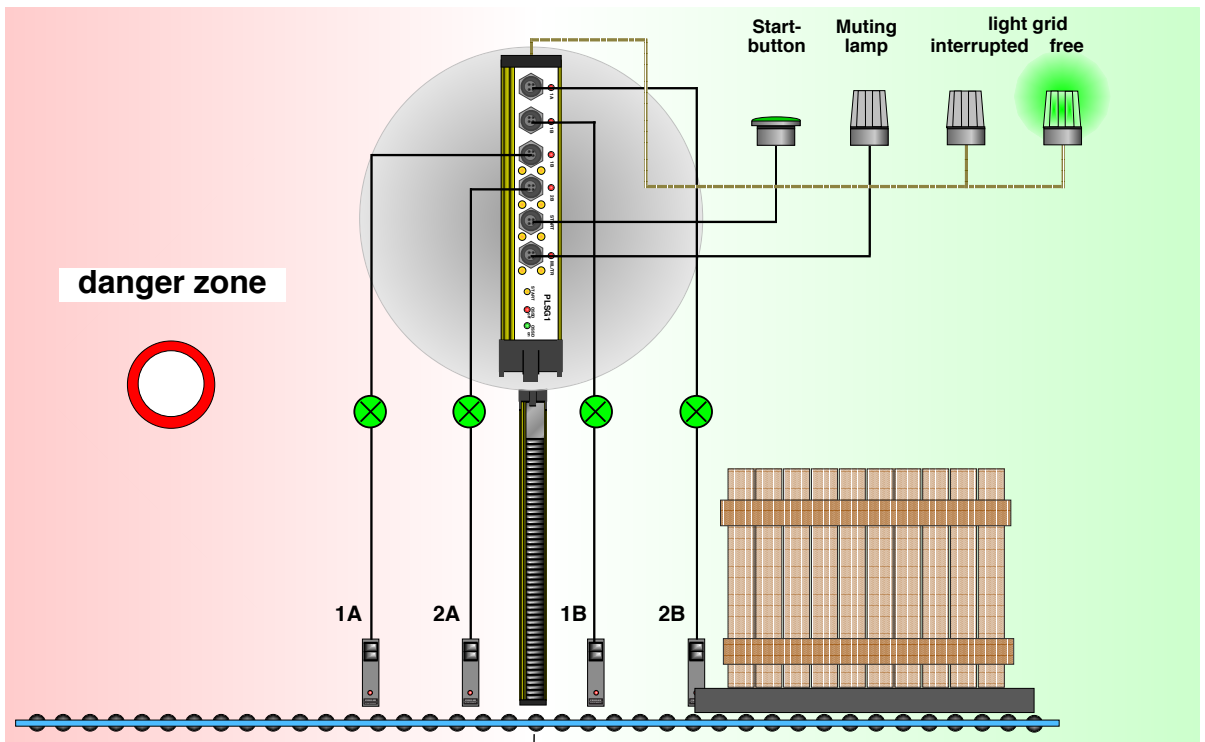
Differentiation of man-material flow



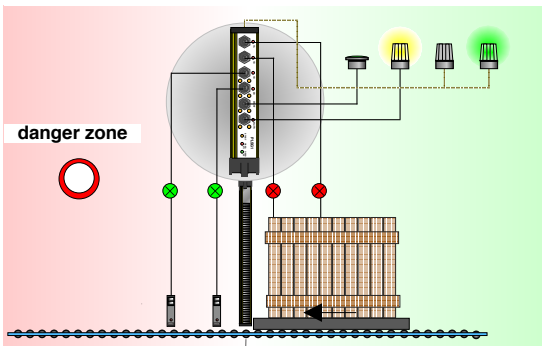
Example for palletizer



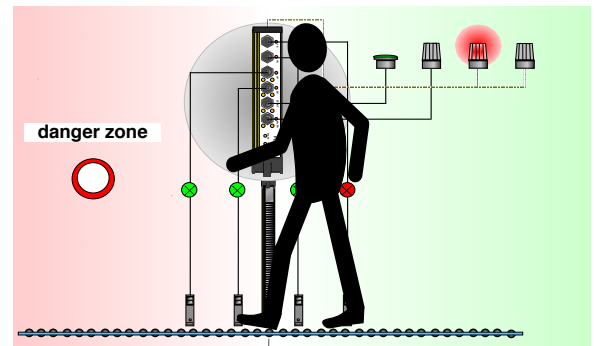
Complete monitoring of an access to a dangerous area



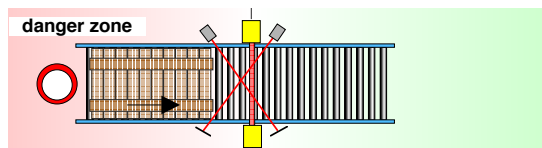
Four Muting sensors distinguish a person from the material flow. All components can be connected to the PLSG controller.



Muting termination: having all 4 Muting sensors interrupted and be released again



With proper arrangement of the sensors a person cannot interrupt any of the Muting sensor pairs A or B at the same time.



Muting-option cross Muting. The intersection of both Muting sensors has to be inside the dangerous zone.

The PLSG offers useful solutions for all Muting applications!

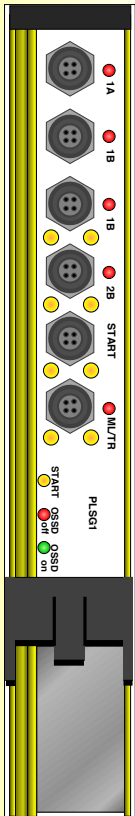
Muting with PLSG 1

PLSG 2

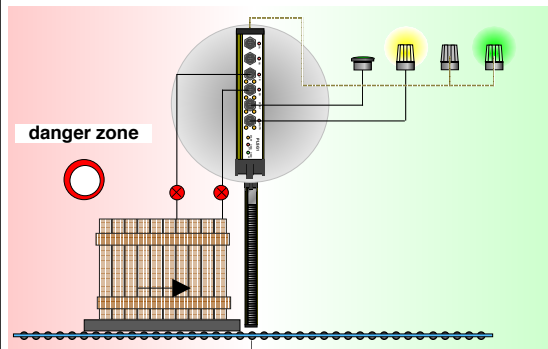
Range of functions PLSG 2

In addition to version PLSG 1

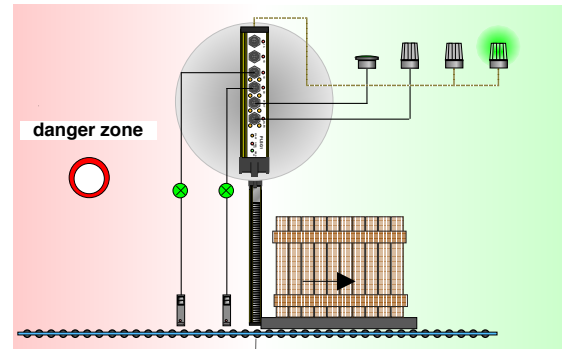
- Delayed muting termination (adjustable)
- Display of the operating condition in plain text (selectable between English and German)
- Immediate Muting termination if protective field is free again.
- OSSD 2 cut-off delay (for regulated slow down of e.g. robotics)
- EDM (external device monitoring) (selectable)



Display of the operating condition in plain Text (PLSG 2/3).



Manipulation safe Muting only if the material flow is going out of the dangerous zone. Muting of the safety light grid will be executed as soon as the material interrupts the two Muting sensors.



As soon as the safety light grid is free again, the Muting condition will be terminated.

PLSG 3

Range of functions PLSG 3

In addition to version PLSG 1 and PLSG 2

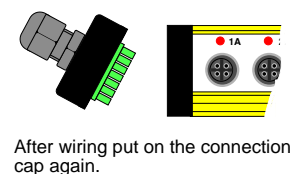
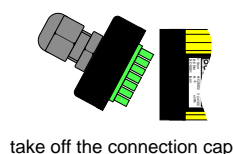
- Emergency Stop connectable
- Protection mode with two hand control and emergency stop circuit
- Two hand control direct connectable (in this version only two Muting sensors can be connected additionally)
- PSDI mode (cycle control) programmable up to 4 strokes
- Work cycle time monitoring in combination with PSDI mode
- Programming of Blanking safety light curtains
- Selector switch mode in combination with the program box BPSG/BLPG

Technical data

Power supply:	24 V DC, +20% -10%
Max. response time:	3 ms + response time safety light grid XLVT
Dimension:	40x61x220 mm (BxHxT) plus PG screw connection
Output:	OSSD 1 and 2 - failsafe PNP-outputs
Protection enclosure:	IP 65
Weight:	450g
El. connection:	integrated connector with PG 9 for strain relief
El. connection for the sensors:	M12 connector

Electrical connection

Connection between safety light grid and PLSG



Matching safety light curtains, -grids and Muting sensors

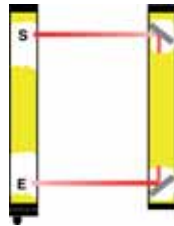
Safet light curtains, -grids

ULVT safety light curtain,-grid

BLVT safety light curtain,-grid
with blanking function



ULVT 500/2R



Muting sensors

e.g.

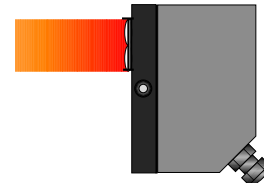
Reflex light beam

GR 5/24, with M12 plug



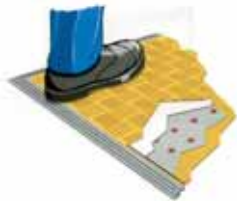
Multifunction light beam

MFL, with M12 plug

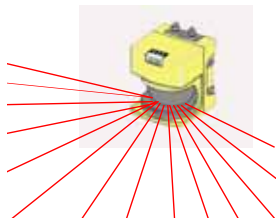


Other safety equipment

Besides the above mentioned light curtains and light grids, Fiessler Elektronik provides other components for the protection of your work places.



Safety mats



Proximity laser scanner



Safety PLC
Programmable Safety Centre
FPSC



Press brake protection system
AKAS



Light curtains for safety, controlling and measuring applications

Service

As a special feature for training our customers, Fiessler Elektronik offers one-day safety workshops. Our service team provides you with expert advice and information for the reliable integration of our safety equipment into your machine.

HOMOLOGATIONS

In order to ensure and maintain the high quality level of the Fiessler safety products, a quality control security system has been established early. Fiessler Elektronik holds the DIN ISO EN 9001 Certificate and, thanks to the company-owned EMC laboratory, all products must pass a inspection without exception before they leave the company. All safety equipment comply with the applicable national and international standards. Development and Design is made in close co-operation with the German employer's liability insurance associations. All homologations are obtained only after having passed strict tests by the German surveyor organisation TÜV.



Innovation award

for exemplary performance in the development of the press brake protection system AKAS.

The award was bestowed upon Fiessler Elektronik by the ministry of trade and commerce of the federal state of Baden-Württemberg.



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Fiessler Elektronik has representations in all major industrial nations.

