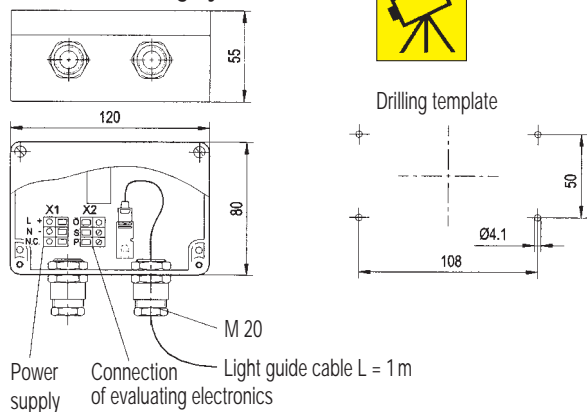


Accessories for flashing lights

Flash monitoring system



This device uses optoelectronics to monitor a flashing light and thus ensure perfect operation. Each flash of light is transmitted along a fibre optic cable to a phototransistor that converts the optical impulse into an electrical signal. An electronic circuit analyzes each impulse and its rate of recurrence. Immediately after connecting to the power supply, the evaluation relay with its double-throw contact is energized. As soon as it is disconnected, the relay drops out immediately. On the one hand, this method of operation provides the technical safety of an NCC circuit whilst ensuring that the alarm is signalled even in the event of power failure. On the other hand, the double-throw contact ensures a main tained alarm function. e.g. in a fault display line, or discontinues machine operations. The external flash monitoring system with a flashing sequence of 1 Hz can be retrofitted.

IP 55	+ 50 °C	+ 50 °C	90%
Protective system (EN 60529 / IEC 529)	Operational temperature	Storage temperature	Relative humidity

Electrical data:

AC 50 Hz / 60 Hz

Rated voltage	Electrical data	
230 V	Voltage range: Rated current:	198 V ... 242 V 0,001 A

DC

Rated voltage	Electrical data	
12 V	Voltage range: Rated current:	11 V ... 15 V 0,05 A
24 V	Voltage range: Rated current:	16 V ... 34 V 0,05 A
48 V	Voltage range: Rated current:	38 V ... 52 V 0,05 A

Duty cycle	100 %
Make-and-break capacity of evaluating electronics	230 V AC 2 A

Mechanical data:	
Cable gland	2 x M 20
Weight of AC version	330 g
Weight of DC version	230 g
Material	Acrylnitrile butadiene styrene (ABS)
Colour	similar to RAL 7035
Length of light guide fibre	1 m
Standard:	
Operational temperature	-20 °C ... +50 °C
Storage temperature	-40 °C ... +50 °C
Relative humidity	90%
Protective system	IP 55 (EN 60529)

Telephone-call relay TAR:



The telephone-call relay TAR is available for all Pfannenberg flashing lights. It provides a visual backup for incoming telephone calls in loud locations, e.g. to be able to reach the production manager or toolsetter at any time.

The TAR unit identifies an incoming telephone call and bridges the subsequent interval in the call. As a private supplementary facility for standard telephone equipment installed in a public network, it is not considered as German Telekom subscriber facility.

IP 54	+ 50 °C	+ 50 °C	90%
Protective system (EN 60529)	Operational temperature	Storage temperature	Relative humidity

Electrical data:

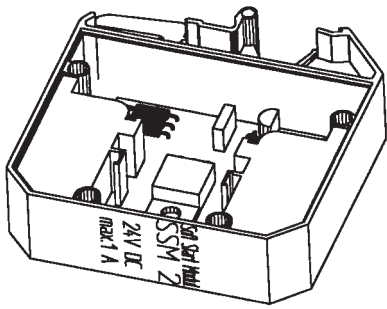
Incoming-call voltage	> 19 V _{rms}
Time lag	approx. 6 s
Nominal voltage	230 V AC
Voltage range	198 V ... 242 V
Output contact	max. 4 A load
Duty cycle	100 %

Type of connection:

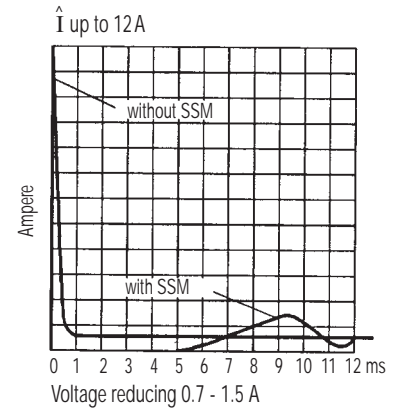
Telephone system	Terminal 1,5 mm ²
Operating voltage	Terminal 1,5 mm ²
Consumer	Terminal 1,5 mm ²

Mechanical data:	
Cable gland	2 x PG 11 / 1 x PG 9
Weight	400 g
Material	Acrylnitrile butadiene styrene (ABS)
Colour	similar to RAL 7035
The TAR module is built into a plastic housing. It is prepared for installation on a 35 mm sectional rail as per DIN 46277 and for EN 50022.	
Standard:	
Operational temperature	-20 °C ... +50 °C
Storage temperature	-40 °C ... +70 °C
Relative humidity	90%
Protective system	IP 54 (EN 60529)

Soft start module SSM



This module provides for a soft start and reduced peak start-up currents for capacitive loads. Every DC device with a smoothing capacitor at the voltage supply input falls into this category, irrespective of whether it is an acoustic or visual alarm. The SSM soft start module prevents relay contact overloads during switch-on operations and also prevents electronic overcurrent devices (e.g. PLC controller) from premature tripping. The module is designed for installation on a 35 mm sectional rail as per DIN 46277 and for EN 50022.



Electrical data:

Nominal voltage	Electrical data	
24 V DC	Voltage range: Rated current:	18V ... 30V 1A

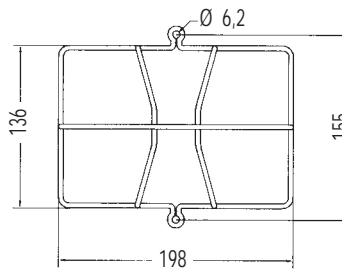
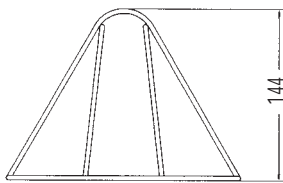
Climatic data:

+50 °C	+70 °C	90%
-40 °C	-40 °C	
Operational temperature	Storage temperature	Relative humidity

Protective cages

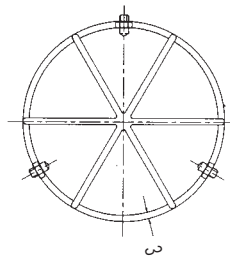
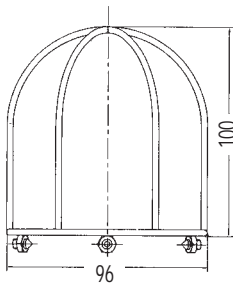
To protect against extreme mechanical wear. A logical choice as accessory for vehicles such as forklift trucks or unmanned trucks.

designed for:
PB 2000 range



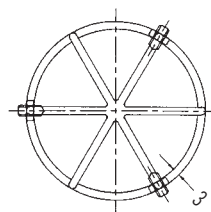
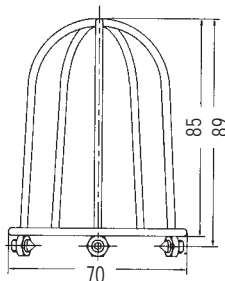
Material: powder-coated steel
Weight: 165 g
Colour: white, similar to RAL 9016

designed for:
ABL/ABS
Quick-range
Ü-range
KDL
KBL
BLS
GDL



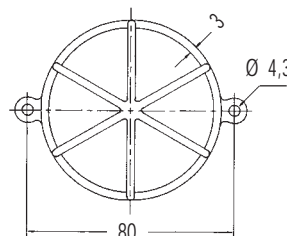
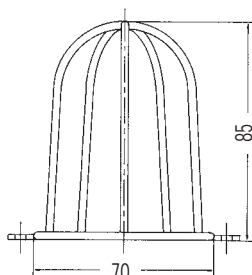
Material: powder-coated steel
Weight: 65 g
Colour: white, similar to RAL 9016

designed for:
WBL
WBS
DWBL
DWBS



Material: powder-coated steel
Weight: 55 g
Colour: white, similar to RAL 9016

designed for:
WBLR
WBSR



Material: powder-coated steel
Weight: 52 g
Colour: white, similar to RAL 9016