

FLASHING WARNING LIGHTS 5 J

WBL/WBS



The classics of flashing lights.

- Sturdy metal housing.
- Universally usable.
- Housing and fixing bracket made of sturdy anodised aluminium.
- Aggressive environmental conditions or driving rain cannot damage the light.
- Impact-proof lens.
- Ideally suited for tough industrial environments.
- Flash tube additionally secured by a steel clamp.



protection
system



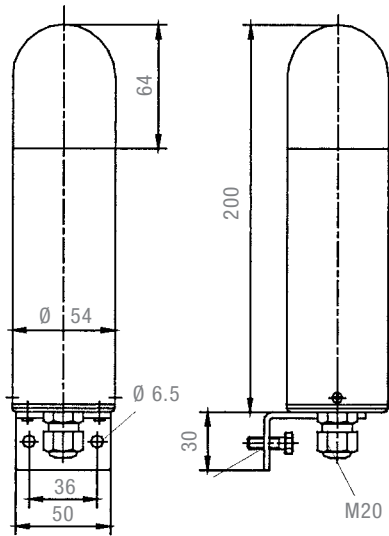
operating
temperature



PRODUCT		AC	WBL				
DATA							
Rated voltage	230 V		110 V	48 V	42 V	24 V	
	AC 50 60 Hz		AC 50 60 Hz	AC 50 60 Hz	AC 50 60 Hz	AC 50 60 Hz	
Operating range		185–255 V		90–135 V	40–54 V	35–50 V	20–30 V
Nominal current consumption		0.07 A		0.1 A	0.47 A	0.5 A	0.77 A
Initial current limited to							
PRODUCT		DC	WBS				
DATA							
Rated voltage		110 V DC		80 V DC	60 V DC	48 V DC	24 V DC
Operating range		88–132 V		64–96 V	50–72 V	40–60 V	18–35 V
Nominal current consumption		0.09 A		0.11 A	0.13 A	0.18 A	0.25 A
Nominal current consumption		0.09 A		0.11 A	0.13 A	0.18 A	0.6 A
Operating range		88–132 V		64–96 V	50–72 V	40–60 V	18–35 V
Nominal current consumption		0.09 A		0.11 A	0.13 A	0.18 A	0.6 A
PRODUCT		WBL				WBS	
Flash rate		1 Hz = 60 flashes/min					
Flash energy		5 J					
Light intensity (DIN 5037) ¹		61 cd					
Max. viewing distance		181 m					
Operating temperature		–40 °C ... +55 °C					
Storage temperature		–40 °C ... +70 °C					
Relative humidity		90 %					
Protection system (EN 60529)		IP 54 (vertical mounting)					
Duty cycle		100 %					
Service life of the light source		light emission still 70 % after 8,000,000 flashes					
Material	lens	 polycarbonate (PC)					
	housing	aluminium (Al Mg Si 1), yellow anodised					
	base	polycarbonate (PC) with fibre glass					
Cable entry		M20x 1.5					
Connecting terminal		single wire 0.5–2.5 mm², fine wire 0.5–1.5 mm², with cable end sleeves DIN 46228/1					
Weight		260 g				300 g	

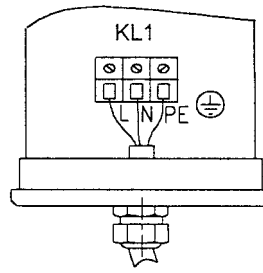
¹ with a clear lens

DIMENSIONS

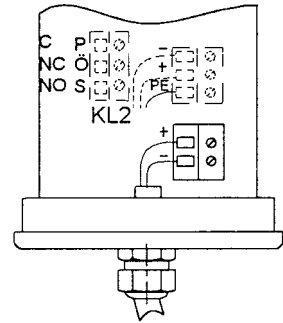


CONNECTION DIAGRAMS

WBL



WBS



ARTICLE NO.	WBL		WBS	
LENS COLOUR	230 V AC	110 V AC	60 V DC	24 V DC
Yellow	21003103000	21003163000	21003 653000	21003803000
Orange	21003104000	21003164000	21003 654000	21003804000
Red	21003105000	21003165000	21003 655000	21003805000

Article numbers for other colours and voltages on request.

CONFORMITY TO STANDARDS

The visual characteristics of flashing lights conform to the European standard DIN EN 842; **“Machine safety – visual alarm signals”**. Requirements contained in the DIN EN 981 standard; **“Machine safety – system of acoustic and visual alarm and information signals”**, can be fulfilled. The colours “red” for the emergency signal and “yellow” for the warning signal conform to the requirements of IEC 73 / DIN EN 60073 / VDE 0199; **“Coding of display devices and control elements using colours and supplementary means”**. References to visual alarm devices can be found in the following standards:

- EN 60825-1 Radiation safety of laser devices, identical to IEC 825 and DIN-VDE 0837
- DIN EN 54 Fire alarm systems
- DIN 54113-2 Radiation protection regulations for the technical operation of X-ray equipment up to 500 kV