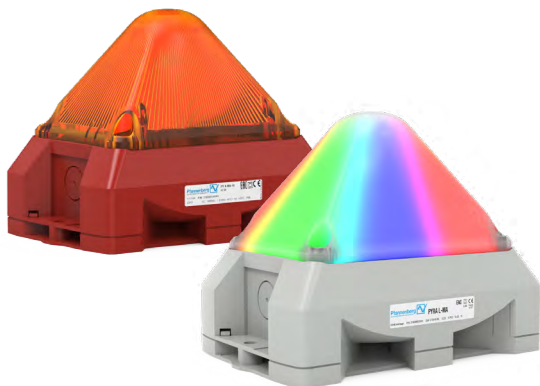


PYRA® LED/SOUNDER COMBINATION MAX. 101 dB(A) / 23 cd PY L-MA / PY L-MA RGB



RGB multi colour or single colour LED/Sounder combination. Maximal perceptible but discreet.

- Selectable signaling modes – Continuous steady on, blinking light or flashing light.
- External colour & mode control (RGB version only) – With PYRA® LED RGB you can state several situations with only one light. Change colour and mode easily by remote control!
- Selectable blink & flash frequencies – Adaptable to all your applications - select the frequency your gadget requires and boost the perceptibility.
- Selectable colour (RGB version only) – Choose the colour you require and stay flexible.
- Possibility to control visual and audible signaling separately – High flexibility in controlling different warning levels.
- Quick and easy to install – Several advantageous characteristics ease the installation process significantly.



multi colour LED (option)



protection system



protection system



impact-proof housing



operating temperature



brightness adjustable



warranty



EurAsian Conformity



UL approval (pending)



connector (option)

3D-COVERAGE PERFORMANCE DATA		PY L-MA				
	VISUAL	Indicate	38.7 x 43.2 x 44.1 m	AUDIBLE	75 dB (A)	10.6 x 10.6 x 7.8 m
	Warn	17.2 x 19.2 x 19.6 m	80 dB (A)		5.8 x 5.9 x 4.4 m	
	Alarm	8.6 x 9.6 x 9.8 m	85 dB (A)		3.2 x 3.3 x 2.2 m	

To determine the exact signaling area for your needs, please use the online available Pfannenbergl Sizing Software PSS.

PRODUCT DATA	PY L-MA			
Rated voltage	115 / 230 V AC 50 / 60 Hz	120 V DC	24 V AC 50 / 60 Hz	12-48 V DC -
Operating range	95 – 265 V	108 – 132 V	21.6 – 26.4 V	10 – 60 V
Current consumption light (max)	36mA @ 230 V AC	25 mA @ 120 V DC	167 mA @ 24 V AC	120 mA @ 24 V DC
Current consumption sound (max)	10 mA @ 230 V AC	40 mA @ 120 V DC	60 mA @ 24 V AC	15 mA @ 24 V DC
Sound pressure level	max. 101 dB (A)			
Sound level reduction	max. -20 dB			
Alarm tones	8			
Light alternation frequency	blinking light 1 Hz / 2 Hz flashing light 0.1 Hz / 0.5 Hz / 0.75 Hz / 1 Hz / 2 Hz			
Light source	single colour: two high output LED / RGB: one high output LED			
Light intensity (DIN 5037) ¹	23 cd (reducible)			
Colour of RGB LED	● ● ● ● ; additionally ○ though external control			
Max. viewing distance	111 m			
Operating temperature	-40 °C ... +55 °C			
Storage temperature	-40 °C ... +70 °C			
Installation position	any			
Degree of protection	IP 66 (EN 60529), NEMA TYPE 4/4X, IK 08 (EN 50102)			
Service life of the light source	≥50,000 hrs			
Material	lens: / ● ● ● ● ● ● (○ - RGB) polycarbonate (PC) housing: PC / ABS blend			
Cable entry	3 x M20 pre-embossed			
Connecting terminal	0.14 - 2.5 mm ² fine stranded			
Weight	620 g			

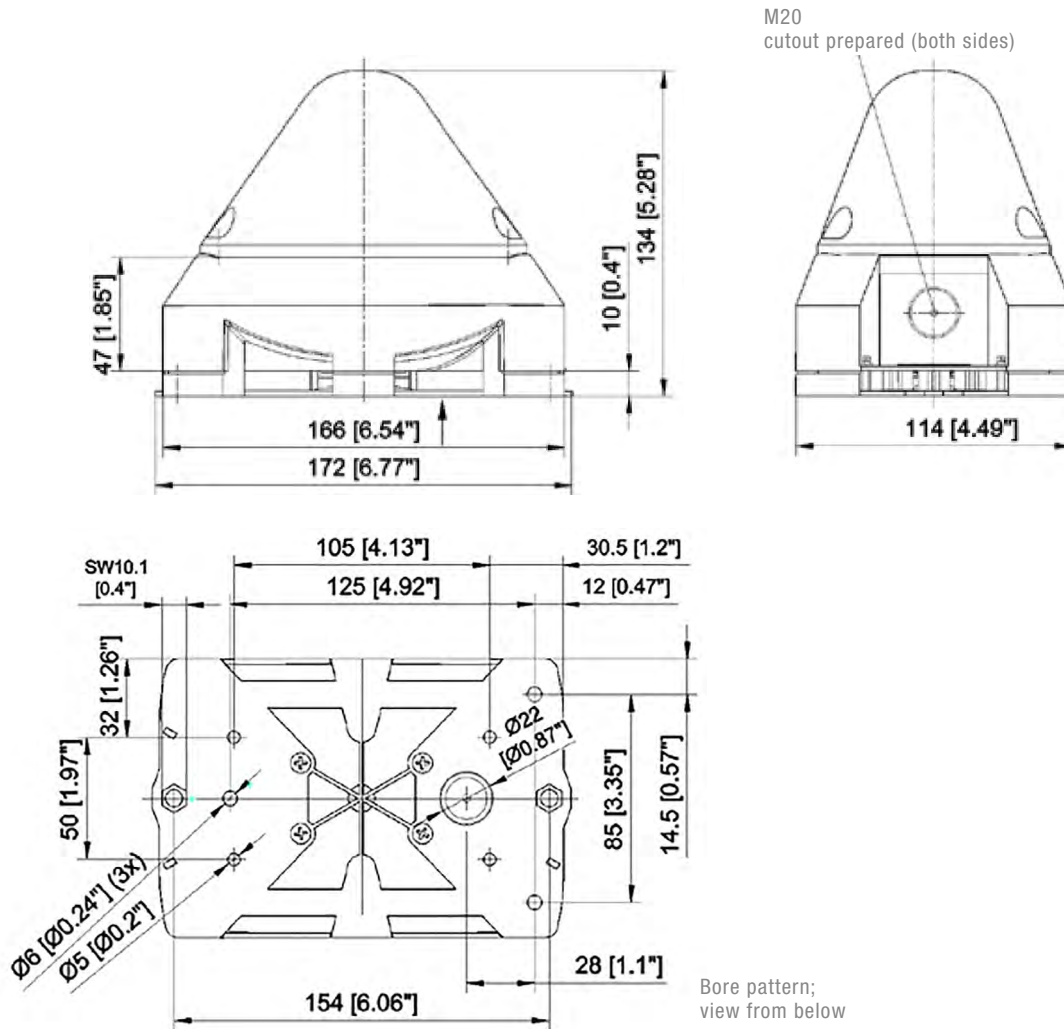
¹ with a clear lens

TONE TABLE

NO.	DESCRIPTION		NO.	DESCRIPTION	
2	Sawtooth, DIN tone 33404-3 Germany (emergency signal), PFEER PTAP	1200 Hz 500 Hz 	160	Continuous tone (horn)	110 Hz
9	Slow whoop, fire alarm, UK BS5839-1	970 Hz 800 Hz 1 s 	161	Continuous tone	3000 Hz
131	Alternating tone, UK BS5839-1 (fire alarm, railway crossing)	1000 Hz 800 Hz 0,25 s 	162 ¹	Interrupted tone	3000 Hz 0,5 s 0,5 s
			163	Interrupted tone	3000 Hz 25 ms 25 ms
			164	Slow whoop	2850 Hz 143 ms 2400 Hz

¹ factory setting

DIMENSIONS



ARTICLE NO.		PY L-MA / PY L-MA RGB	
HOUSING COLOUR	LIGHT / LENS COLOUR	115 / 230 V AC; 120 V DC	12-48 V DC
●		21556648055	21556818055
●		21556643055	21556813055
●		21556644055	21556814055
●		21556645055	21556815055
●		21556646055	21556816055

Article numbers for other colours and voltages on request.

OPTIONS / ACCESORIES

Sealing plug, 4-pack	28300000002
Spare locking bolt, 4-pack	28912000000
Surface seal	28111500000

Version with M12 connection on request

CONFORMITY TO STANDARDS

The acoustic parameters conform to the European standard DIN EN ISO 7731:
“Ergonomic – alarms for public areas and workplaces – acoustic alarms”.

The requirement for an acoustic alarm signal can be found in the harmonised standards:
 EN 60204-1 Electrical equipment of machines
 EN 60825-1 Radiation safety of laser devices, identical to IEC 825 and DIN-VDE 0837

The visual characteristics of LED 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