PYRA® COMPACT LED TRAFFIC LIGHTS
PY L-S-TL | PY L-S-TLA



Combine it as you need it! PYRA® compact LED traffic lights can be chosen pre-assembled or you can compose it due to your needs. Select between a 2 or 3-stages traffic light only or combine it additionally with a PA1 sounder.

- Selectable combination - Flexible and easy! Feel free to compose your traffic light as you wish! The prewired base can be complemented with several stages of LEDs plus a sounder.
- Selectable signaling modes: continuous-, blinking- and flashing-light
- Selectable blink & flash frequencies - Adaptable to all your applications - select the frequency your gadget requires and boost the perceptibility.
- Multi-voltage-power supply - Plug and play PYRA® LED adapts to most machines and applications no matter the voltage!

IP 66	IK08	+55 °C / –40 °C	10 Years	EAC	NEMA 4/4X		M12	UL
protection system	impact-proof housing	operating temperature	warranty	EurAsien Conformity	protection system	brightness adjustable	connector (option)	UL approval

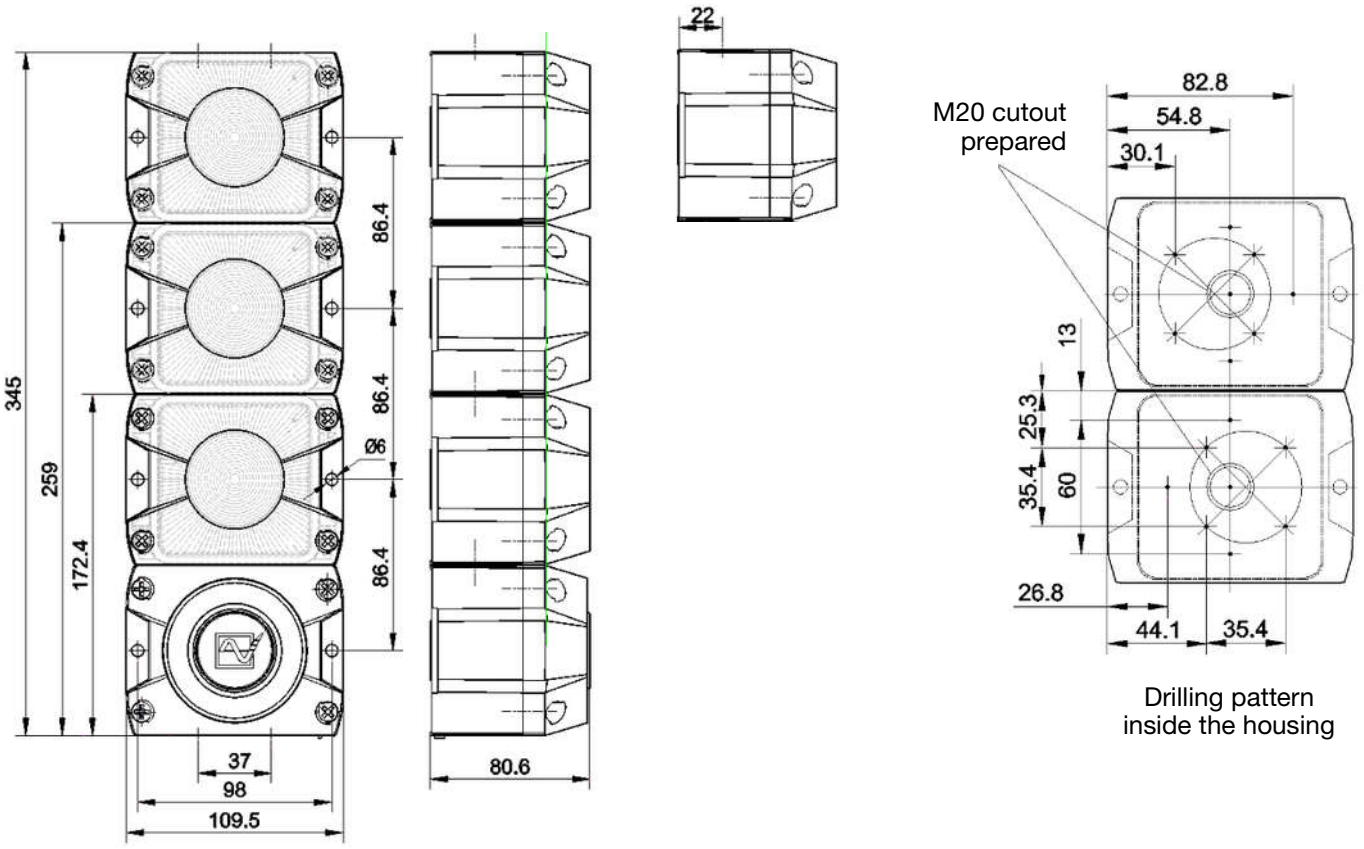
3D-COVERAGE PERFORMANCE DATA		PY L-S-TL / PY L-S-TLA			
		VISUAL		AUDIBLE	
	Indicate	35.1 x 14.9 x 14.2 m	80 dB (A)	16 x 13.8 x 16 m	
	Warn	15.6 x 6.6 x 6.4 m	85 dB (A)	9 x 7.8 x 9 m	
	Alarm	7.8 x 3.3 x 3.2 m	90 dB (A)	5.1 x 4.4 x 5.1 m	

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

PRODUCT	PY L-S-TL			PY L-S-TLA			
DATA							
Rated voltage	115 / 230 V	24 V AC	12–48 V DC	230 V AC	115 V AC	24 V AC	12–48 V DC
Rated frequency	50 / 60 Hz	50 / 60 Hz	–	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	–
Operating range	90–253 V	21.6–26.4 V	10–60 V	195–253 V	95–127 V AC	21.6–26.4 V	10–57 V
Current consumption (max/stage)	36 mA @ 230 V AC	167 mA @ 24 V AC	120 mA @ 24 V DC	36 mA @ 230 V AC	51 mA @ 115 V AC	167 mA @ 24 V AC	120 mA @ 24 V DC
Current consumption / sounder stage (max)	–	–	–	16 mA @ 230 V AC	30 mA @ 115 V AC	150 mA @ 24 V AC	70 mA @ 24 V DC
Max sound level	–			105 dB (A) @ 1m			
Volume control	–			max. -12 dB			
Tones	–			80			
Operating mode internally selectable	continuous light / blinking light / flashing light						
Light source	one high output LED per single unit						
Light intensity (DIN 5037)[1]	76 cd (reducible) per single unit						
Max. viewing distance	202 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 62262)						
Service life of the light source	≥50,000 hrs						
Material – lens	Polycarbonate (PC)						
Material – housing	PC / ABS blend						
Cable entry	4-stage: 8x M20 pre-embossed 2 and 3-stage: 6x M20 pre-embossed						
Connecting terminal	0.14 - 2.5 mm² fine stranded						
Weight per stage	265 g per light / max. 405 g sounder						

[1] with a clear lens

DIMENSIONS



ORDERING DETAILS

Option 1: Fully assembled traffic lights

Choose a fully assembled traffic light. All you have to do is to select the combination you require. You can choose between traffic lights with two or three different colours.

If you need a more flexible solution and you would like to assemble it individually due to your needs, so please have a look at Option 2 below.

ORDERING DETAILS	PY L-TL (FULLY ASSEMBLED TRAFFIC LIGHTS WITH GREY BASES)		
Lens colours	Rated voltage	115 / 230 V AC; 120 V DC	12–48 V DC
red-green	Article number	21514642055	21514812055
red-yellow-green	Article number	21514643055	21514813055

ORDERING DETAILS

Option 2: Individually composed traffic lights with or without sounder

Assemble your traffic lights due to your needs.

Step 1: The pre-assembled base is needed to assemble your individual traffic light. Please choose the number of stages - you can select between 2, 3 or 4 stages.

Step 2: Choose your inserts. You can select between different light colours and a sounder. Please note that the number of stages chosen above is at the same time the number of inserts that can be assembled.

ORDERING DETAILS	PY L-S-TL (PRE-ASSEMBLED GREY BASE PARTS) PY-TL (LIGHT/SOUNDER INSERTS FOR SELECTABLE COMBINATION)		
Step 1 - Please choose the base element with the required number of stages:			
Pre-assembled base parts	2 stages	3 stages	4 stages
Article numbers	21514002055	21514003055	21514004055
Step 2 - Select the light and/or sounder inserts (choose all with the same power supply):			
Light/sounder inserts	Rated voltage	115 / 230 V AC; 120 V DC	12–48 V DC
yellow	Article number	21516643000	21516813000
red	Article number	21516645000	21516815000
green	Article number	21516646000	21516816000
sounder, grey	Article number	21517100055 (230 V AC only)	21517810055

OPTIONS/ACCESSORIES

Tamper-proof sealing for PYRA® / PATROL (4-Pack)	28300000002
Looking elements for PYRA® / PATROL (4-Pack)	28912000000

Variant with M12 connection 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