PYRA FLASHING LIGHT SOUNDERS 100 dB(A) / 5/10 J
PY X-MA-05 / PY X-MA-10

NEW

- safe - an incorrect installation is virtually impossible
- easy - significantly shorter assembly and installation times
- economical - largest possible signaling range due to effective XENON technology
- installation options with external lugs or internal holes
- choice of four different flash rates via DIP switch
- electronic constant current regulation at 24 V AC/DC devices to avoid load fluctuations
- integrated inrush current limitation and undervoltage detection
- providing full synchronization on multi-flashing light systems
- light and sounder can be controlled separately

PY X-MA-05	PY X-MA-10						
r = 11 m	r = 17 m	IP 66	IK 08	+ 55 °C / - 40 °C	Sync	UL	10 Years
Visual covering distance		Protection system	Impact-proof housing	Operating temperature		pending	Warranty

Electrical data	PY X-MA-05		
Rated voltage	230 V AC	115 V AC	24 V AC/DC
Rated frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz / DC
Operating range	187 – 255 V	90 – 135 V	AC: 18 – 30 V / DC: 10 – 60 V
Nominal current consumption [1]	70 – 75 mA	120 – 140 mA	AC: 660 – 720 mA DC: 280 mA @ 24 V
Electrical data	**PY X-MA-10**		
Rated voltage	230 V AC	115 V AC	24 V AC/DC
Rated frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz / DC
Operating range	187 – 255 V	90 – 135 V	AC: 18 – 30 V / DC: 10 – 60 V
Nominal current consumption [1]	160 – 165 mA	250 – 270 mA	AC: 1050 – 1150 mA DC: 550 – 620 mA @ 24 V

[1] power consumption dependent on operating voltage

Mechanical data		PY X-MA-05	PY X-MA-10
Sound pressure level		100 dB (A)	
Sound level reduction		max. - 20 dB via potentiometer	
Alarm tones		8	
Flash energy		5 J	10 J
Flash rate		0.1 / 0.5 / 0.75 / 1 Hz (DIP switch)	
Light intensity (DIN 5037) [1]		44 cd	118 cd
Operating temperature		- 40 °C ... + 55 °C	
Storage temperature		- 40 °C ... + 70 °C	
Relative humidity		90%	
Protection system according to EN 60529		IP 66	
Protection class		II	
Duty cycle		100%	
Service life of the flash tube		light emission still 70% after 8,000,000 flashes	
Material	base part	PC / ABS	
	lens flashing light	polycarbonate (PC)	
Housing colour		RAL 3000 (flame red) / RAL 7035 (light grey)	
Lens colour		clear, white, yellow, amber, red, green, blue	
Cable entry		2 x M20 on side, 1 x M20 on bottom	
Integrated seal with cable entry		6 – 13 mm	
Connecting terminals		2.5 mm² fine wire, AWG 16	
Weight	AC	620 g	660 g
	AC/DC	560 g	580 g

[1] with a clear lens

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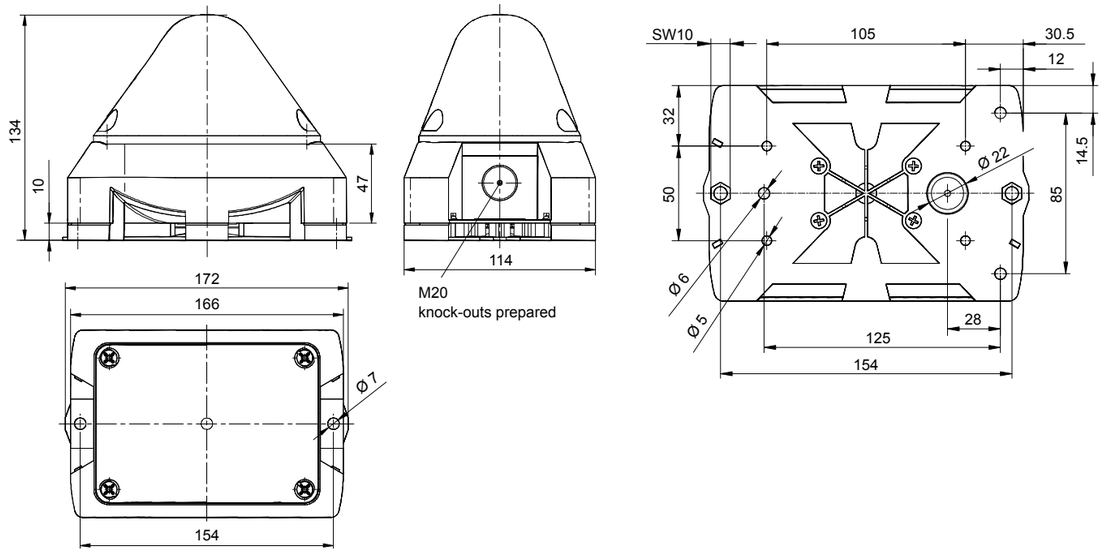
Dimensions



Tone table

Tone no.	Description	
1	Sawtooth, DIN tone 33404-3 Germany (emergency signal), PFEER PTAP	1200 Hz / 500 Hz, 1 s
2	Continuous tone (horn)	110 Hz
3	Continuous tone	3000 Hz
4	Interrupted tone	3000 Hz, 0.5 s / 0.5 s

Tone no.	Description	
5	Interrupted tone	3000 Hz, 25 ms / 25 ms
6	Slow whoop, fire alarm, UK BS5839-1	970 Hz / 800 Hz, 1 s
7	Slow whoop	2850 Hz / 2400 Hz, 143 ms
8	Alternating tone, UK BS5839-1 (fire alarm, railway crossing)	1000 Hz / 800 Hz, 0.25 s / 0.25 s

Ordering details

Article numbers		PY X-MA-05 – housing red			PY X-MA-05 – housing grey		
Version	Rated voltage	230 V AC	115 V AC	24 V AC/DC	230 V AC	115 V AC	24 V AC/DC
clear lens		215 54 10 1 000	215 54 15 1 000	215 54 81 1 000	215 54 10 1 055	215 54 15 1 055	215 54 81 1 055
yellow lens		215 54 10 3 000	215 54 15 3 000	215 54 81 3 000	215 54 10 3 055	215 54 15 3 055	215 54 81 3 055
red lens		215 54 10 5 000	215 54 15 5 000	215 54 81 5 000	215 54 10 5 055	215 54 15 5 055	215 54 81 5 055
Article numbers		**PY X-MA-10 – housing red**			**PY X-MA-10 – housing grey**		
Version	Rated voltage	230 V AC	115 V AC	24 V AC/DC	230 V AC	115 V AC	24 V AC/DC
clear lens		215 55 10 1 000	215 55 15 1 000	215 55 81 1 000	215 55 10 1 055	215 55 15 1 055	215 55 81 1 055
yellow lens		215 55 10 3 000	215 55 15 3 000	215 55 81 3 000	215 55 10 3 055	215 55 15 3 055	215 55 81 3 055
red lens		215 55 10 5 000	215 55 15 5 000	215 55 81 5 000	215 55 10 5 055	215 55 15 5 055	215 55 81 5 055

Article numbers for other voltages and versions on request

Options / Accessories

Surface gasket

Tamper-proof sealing

See page 165 for further information

Conformity to standards

The acoustic parameters conform to the European standard DIN EN ISO 7731;
"Ergonomic – alarm signals for public areas and workplaces – acoustic alarm signals".

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