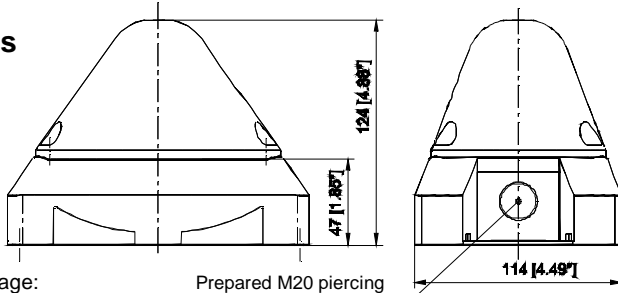


Operating and installation instruction for PY X-M/ PY X-MA beacon

Dimensions

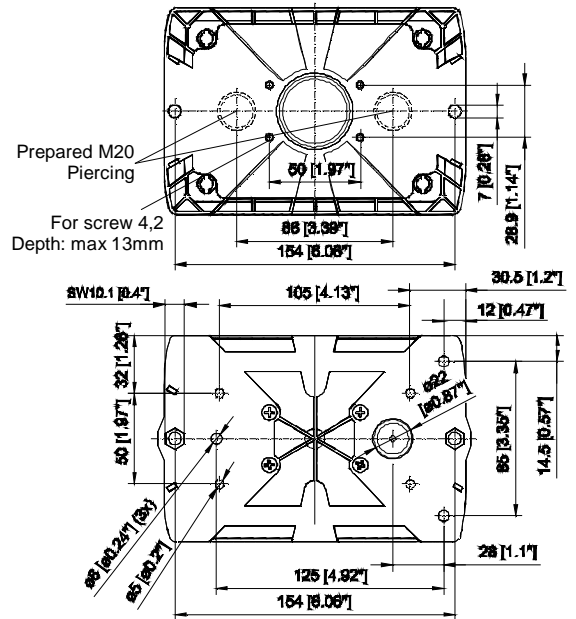
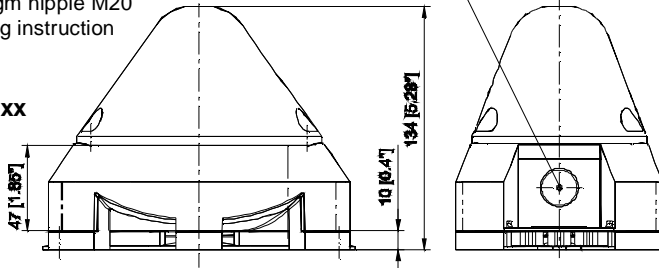
PY X-M-xx



Content of package:
1x Alarm device
1x Diaphragm nipple M20
1x Operating instruction

Prepared M20 piercing
(both sides)

PY X-MA-xx



Technical Data

	PY X-M-05			PY X-M-10			PY X-MA-05			PY X-MA-10		
Flash energy	5J			10J			5J			10J		
Rated effective luminous intensity	44 cd (clear)			118 cd (clear)			44 cd (clear)			118 cd (clear)		
Flash frequency	0,1 / 0,5 / 0,75 / 1 Hz											
Nom. sound level	-			-			100dB (A) 1m			100dB (A) 1m		
Volume control	-			-			max. - 20 dB			max. - 20 dB		
Tones	-			-			8			8		
Rated voltage	230V AC	115V AC	24V AC/DC	230V AC	115V AC	24V AC/DC	230V AC	115V AC	24V AC/DC	230V AC	115V AC	24V AC/DC
Frequency	50/60 Hz		50/60 Hz/ DC	50/60 Hz		50/60 Hz/ DC	50/60 Hz		50/60 Hz/ DC	50/60 Hz		50/60 Hz/ DC
Operating voltage range	187-255V	90 – 135V	AC: 18 – 30V DC: 10 – 60V	187– 255V	90 – 135V	AC:18 – 30V DC: 10 – 60V	187– 255V	90 – 135V	AC:18 – 30V DC: 10 – 60V	187– 255V	90 – 135V	AC:18 – 30V DC: 10 – 60V
Power Consumption (1Hz) [mA]	60	110	AC: 600 DC: 280 @24V	150	240	AC: 1000 DC: 540 @24V	70 - 75	120 - 140	AC: 660–720 DC: 290-360 @24V	160 - 165	250 - 270	AC: 1050-1150 DC: 550-620 @24V
Power consumption	13,8VA	12,7VA	AC:14,4VA DC:6,7W	34,5VA	27,6VA	AC:24VA DC: 13W	17,3VA	16,1VA	AC:17,3VA DC: 8,6W	38VA	31VA	AC:27,6VA DC:14,9W
Duty cycle	100%											
Connection terminal	0,14 - 2,5mm² / AWG24 - AWG 14 (stranded)											
Protection system	IP66 (EN60529) , Type 4 & 4x											
Resistance against impact	IK 08 (EN50102)											
Protection class	II □ Double insulated equipment											
Operating temperature	-40°C...+55°C											
Storage temperature	-40°C...+70°C											
Max. rel. Humidity	90%											
Cable entry	4x M20 (prepared)						3x M20 (prepared)					
Sealing range of grommet	7 – 13 mm - With the use of cable diameters <7 mm, a cable screw joint with sufficient ingress protection must be provided											
Material of housing	PC/ABS Blend											
Material of lens	PC											
Installation position	arbitrary											
Option	Control input											
Accessory	Sealing plug (part-no. 28300000002)											
Lens colours	clear, white, yellow, amber, red, green, blue											

Approvals

Approvals (valid for marked equipment)				
Construction Product Directive (89/106/EWG) (in preparation)	PY X-M-05 + PY X-M-10: VdS 0786-CPD-xxxx			
	Rated voltage	12V DC	24V DC	48V DC
	Operating voltage range acc. to EN54-23	10V – 60V DC		
	Lens colours	red, clear		
	Signalling area	EN 54-23 Category O: see document 30360-005-1		
	Environmental protection class	Type B		
	Installation position	see document 30360-005-1		
	Testing takes place using the supplied diaphragm nipple and the outer fastening bores.			
	VdS in preparation	PY X-M-05 + PY X-M-10: G212xxx, data see Construction Product Directive (89/106/EWG)		
UL, cUL in preparation	PY X-M-xx + PY X-MA-xx			
	Rated Voltage	Visual Signal Appliance - General Signaling Equipment - UEES, UEES7		
	115V AC 230V AC	Suitable for indoor and outdoor use. Warning: Not to be used as a Visual Public Mode Alarm Notification Appliance. According to CSA-C22.2 No. 205-M1983 clause 4.3.4 the connection is limited to max. three leads.		
	24V AC/ DC			

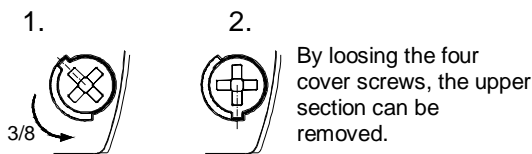
PYRA Xenon beacons PY X-M(A)-xx comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules.

Taking into Operation

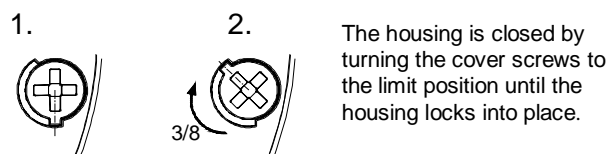
Safety notes:

- Installation must be carried out by an electrician in compliance with the latest codes and regulations.
- Danger: High voltage may be present.
- Prior to opening, it must be ensured that no voltage is applied to the device.
- Before electrical connection, the supply voltage on the type plate is to be checked. The wrong operating voltage can lead to damages or to the destruction of the equipment.
- During installation it must be ensured that the connection cables are secured against tension and distortion.
Please observe: The devices are not designed for portable use.
- CAUTION: When making installation, route field wiring away from sharp projections, corners and internal components.
- The function of the unit is only guaranteed if the upper and lower section is joined correctly.
- In order to prevent detriment to sight, continuously looking directly in the activated light is to be avoided.

Opening the housing

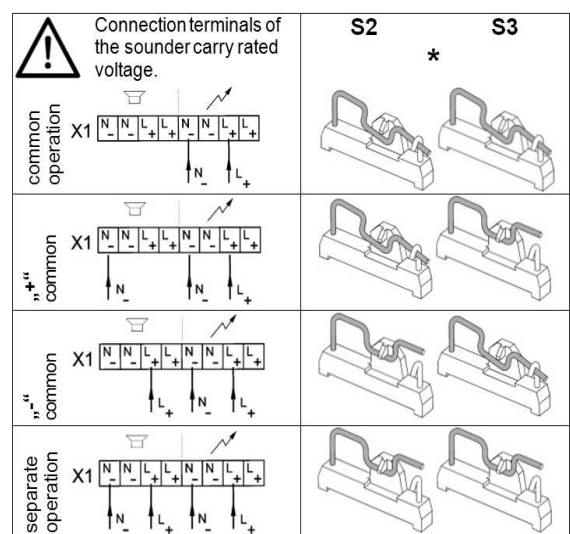
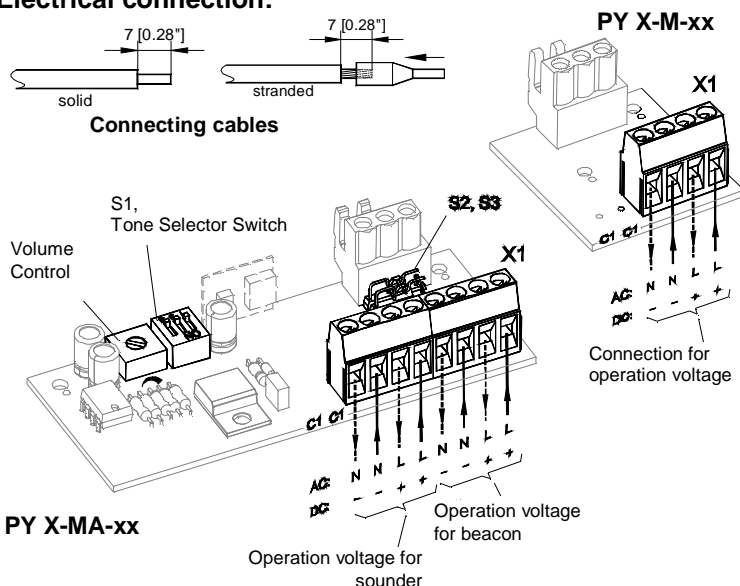


Closing the housing



The unit is not closed when delivered. Sealing plugs for the housing screws are available as accessories.

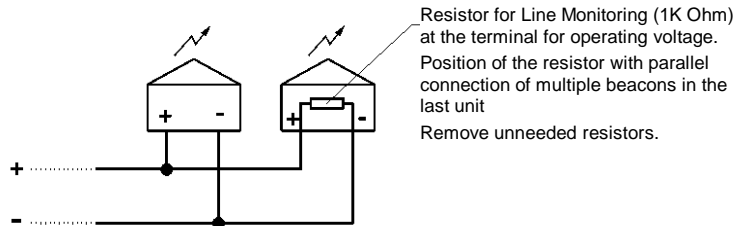
Electrical connection:



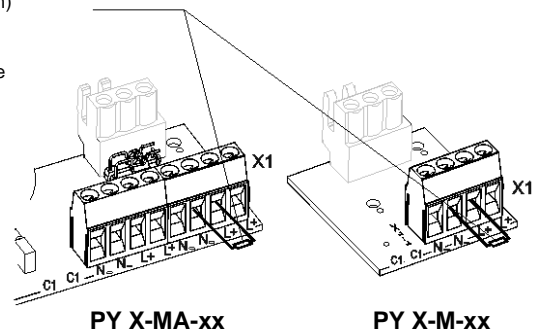
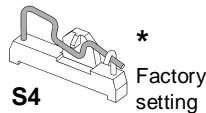
The beacons satisfy the requirements of the standard EN54-23 (Synchronization).

Caution: In order to ensure synchronization, the devices must be operated with the same potential.

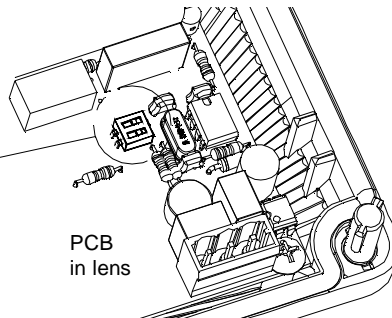
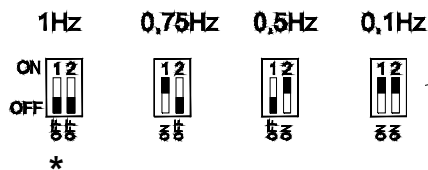
Line monitoring:



When the line monitoring is used with reverse voltage the blocking diode must be activated by opening the Switch S4 (on pcb inside lens).



Flash Frequency adjustment:



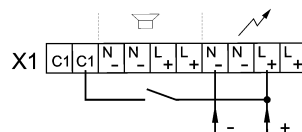
Tone table (for PY X-MA-xx):

1	Sawtooth DIN 33404-3 (Emergency signal) PFEER PTAP	1200 Hz 1 s 500 Hz	ON 1 2 3 OFF 5 6 7
2	Continuous tone (Horn)	110 Hz	ON 1 2 3 OFF 5 6 7
3	Continuous tone	3000 Hz	ON 1 2 3 OFF 5 6 7
4	Interrupted tone	3000 Hz 0.5 s 0.5 s	* ON 1 2 3 OFF 5 6 7
5	Interrupted tone	3000 Hz 25 ms 25 ms	ON 1 2 3 OFF 5 6 7
6	Slow whoop Fire alarm UK BS5839-1	970 Hz 1 s 800 Hz	ON 1 2 3 OFF 5 6 7
7	Slow whoop	2850 Hz 143 ms 2400 Hz	ON 1 2 3 OFF 5 6 7
8	Alternating tone, UK BS5839-1, Fire alarm, railway crossing	1000 Hz 0.25 s 800 Hz 0.25 s	ON 1 2 3 OFF 5 6 7

* Factory setting, Tone selector switch S1 on pcb inside base part, see chapter „electrical connection“.

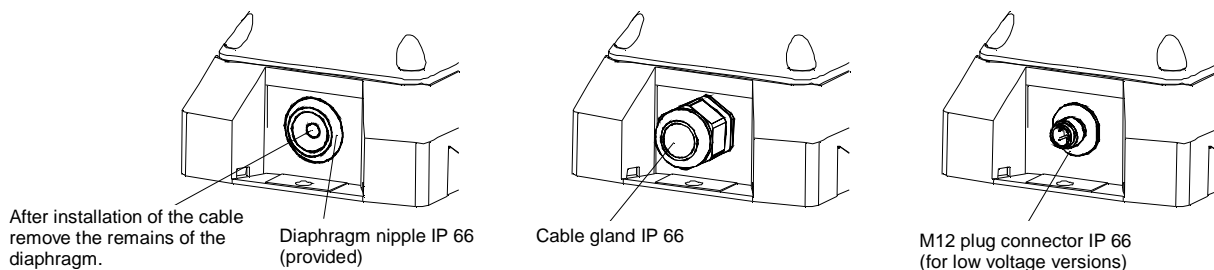
Devices with control input (for PY X-M-xx)

This option allows the beacon to be activated via control voltage.
The maximum current consumption of the control input is max. 1W.



Cable gland entries

To guarantee the specified protection type, cable grommets with a protection type of IP 66 are to be installed at the openings provided for this purpose. The supplied diaphragm nipple can be replaced with a cable gland or with an M12 plug connection with a flange measurement of M20.



Maintenance, Service and Ordering Spare Parts

The device does not require any special maintenance. External cleaning should be done with a mild soap solution without the use of solvents. The device may only be operated in the undamaged state within the specified rating.

Conversions, alterations, improper and inadmissible use as well as the non-observance of the notes in these operating instructions shall render the warranty null and void. Components may be replaced only by original spare parts. As a matter of principle, repairs are to be carried out in the manufacturing works.