

## TECHNICAL DATA SHEET

The X700 series is suitable for internal or external use where a more powerful visual signal is required in general signalling applications. It produces a maximum 15 Joules of flash energy with the light being emitted through 120 degrees above the vertical axis. Termination is inside the enclosure offering 4 conduit size options; 4 x M16, M20, M25 & M32 - 2 of each on opposite faces.

These Xenon beacons (sometimes called strobes) are controlled via a PCB and put out a very brief but very bright flash of white light by ionizing and then discharging a large current through the xenon gas.

The units incorporate multiple functionality options as detailed. To use all the control options in an installation will require a 4 core cable.

Part Code:	Voltage:	Light Source:	Current:
X700-22	230v Ac ~	Xenon 15J/7.5J	380mA

### **Lens Colour Selection**

01 = Amber, 02 = Red, 04 = Green, 05 = Clear.

### **Key Features**

- Terminal Block accepts up to 2.5mm<sup>2</sup> cable incorporating rising clamp protectors
- Ingress Protection: IP66/67 & NEMA Class: 1, 4, 4X & 6
- Flash Synchronisation option (10 units max)
- Fault Finding option
- Multiple Flash rates
- Operating Temperature: -25°C to +55°C
- Enclosure Material: UV Stable Polycarbonate Lens UL94 HB  
UV Stable Polycarbonate Base UL 746C 5"  
RAL 7035 Light Grey
- AC Supply: 50/60Hz

### **General Installation Notes**

- Installation must be carried out in accordance with the latest codes and regulations by a qualified electrician.
- Do not handle electronic components whilst wiring up, unless indicated above.
- Ensure power is disconnected prior to installation or maintenance.
- Xenon type units must be left for a minimum of 15 minutes after power has been disconnected before maintenance can begin.
- Environmental exposure conditions during installation should be dry, not moist or wet.
- The lens of the unit is Polycarbonate Plastic. Do not clean with petroleum based cleaners.
- Avoid mounting the beacon where it will be subject to excessive vibration.



## INSTALLATION & TECHNICAL INFORMATION



### **X700-22 Series - (Xenon/Strobe)**

XENON HIGH OUTPUT VISUAL SIGNALLING DEVICES

APPROVALS AND CONFORMITIES



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Moflash part code S00607

## INSTALLATION DATA SHEET

Unscrew the 4 plastic retaining screws that hold the beacon lens to the back box. Remove the appropriate conduit knockout from the back box to suit the cable gland being used. Ensure that the cable gland has the correct IP rating for the installation. Locate and fix the back box to appropriate surface by using the 4 x 4.5mm fixing holes, using 4mm screws (not supplied)

Fit the cable gland into the chosen conduit knockout and pull power cable through and into the back box.

### Beacon Functionality Settings

The X700 beacon is designed to work both independently and as part of a synchronised string of beacons (maximum 10 in a string). These units come with a variety of flash rates and 2 flash power settings, all controlled via the 4 way DIP switch on the PCB. The functions of the switch are shown below:

Switch	ON	OFF
1	<b>Master</b>	Slave
2	<b>15J</b>	7.5J
3	Flash Rate	
4	Flash Rate	

See Table below

Switch 3 Position	Switch 4 Position	Flash Rate
OFF	OFF	2 Hz (120 FPM)
<b>OFF</b>	<b>ON</b>	<b>1 Hz (60 FPM)</b>
ON	OFF	0.5 Hz (30 FPM)
ON	ON	0.2 Hz (12 FPM)

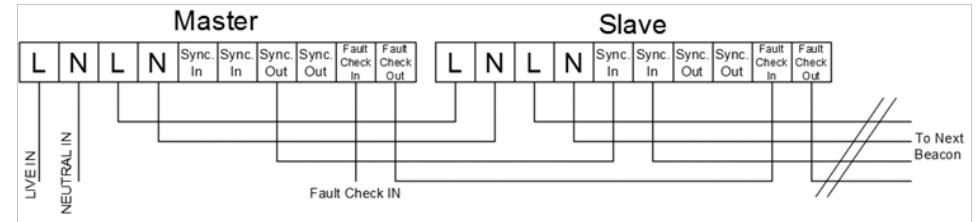
### Factory Standard Settings

When the unit is being used as a stand alone flashing beacon, the switch will need to be in the MASTER position (Switch position '1' ON). All other switches can be adjusted to fulfil required output.

When using a string of synchronised units, the first beacon in the string must have MASTER selected and the remaining units be set to SLAVE. The Power and Flash rate settings must be the same on all units in the string.

### Connection Detail

To operate a single beacon, connect Live and Neutral as shown below on the master terminal.



For synchronous operation of 2 or more beacons the above connectivity is required using the master/slave arrangement.

The fault check is not required for operation. Connections are included to show wiring through the string if required. If a fault is detected this line will show as a positive signal and the string will stop flashing. Possible defects are:-  
Power Failure, Synchronisation Failure, Capacitor Fault, Flash Tube Fault.

