

EXTERNAL TEST LAMP UNIT LAM-612P

CE II 3D T85°C

Description

Designed to test the RIV-601P/S spark detector window integrity against dust and dirt build-up.

Its use is recommended when internal test cannot be reliable because of window being covered or darkened.

Its mounted like a spark detector, using the same SAM-871 mounting unit, over the duct in the opposite position, so as it will be in front of the spark detector.

The LAM-612P unit includes an incandescent bulb whose light is made pulsing by a modulator circuit at a particular frequency which is recognised by the spark detector.

On the LAM-612P terminal block wiring is on the same - and T+ terminals (5-6) as on RIV-601P/S spark detector.



Specifications

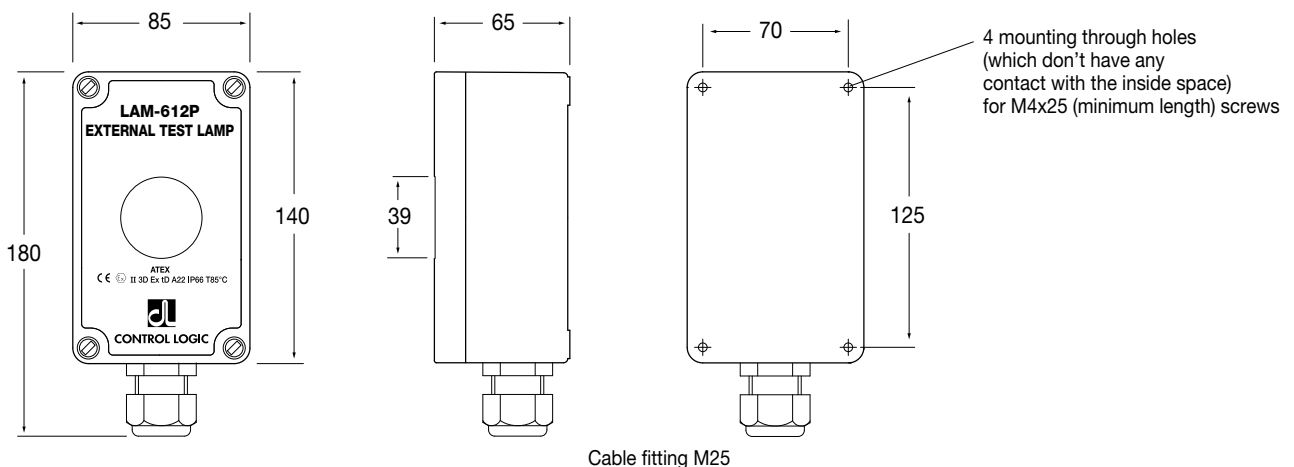
Cast aluminium case with IP66 protection (dust and water spray). Power voltage 24Vdc \pm 15% 50mA (TEST pulse: a short pulse simulates a spark).

Electrical wiring on terminal block. Only - and T+ terminals are used (positions 5-6).

Weight 700g.

Model complying with 94/9 Atex directive suitable for application on zone 22

CE II 3D Ex tD A22 IP66 T85°C.



Notes: In order to ensure an **IP66 protection grade** the cover must be tightly closed turning the four screws provided. The suggested closing torque value is $1 \div 1.5\text{Nm}$.

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OPERATING INSTRUCTIONS

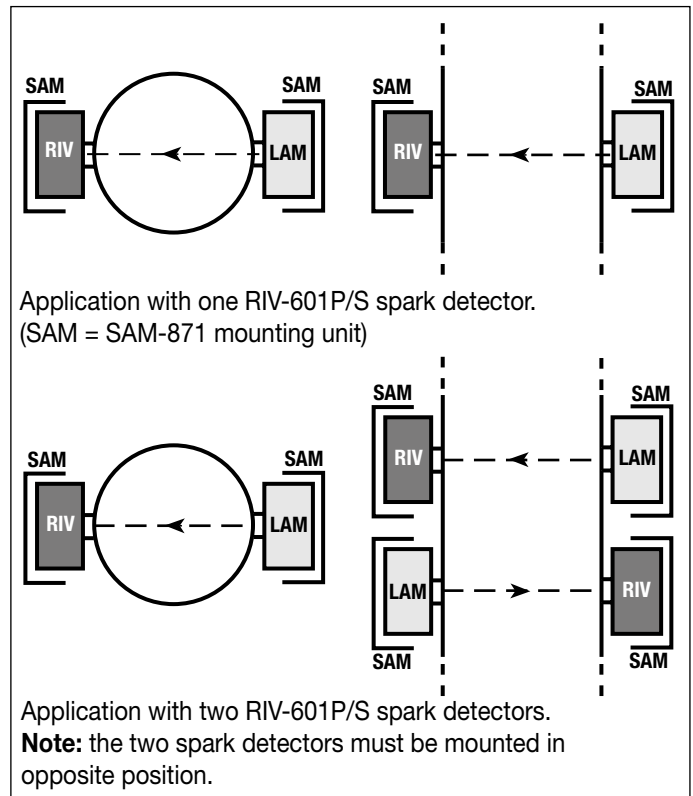
The LAM-612P unit is operated when the Test key on the control panel is depressed.

The control panel must be independent from the spark detector system control panel.

This is very important in order that both the external and the normal internal test can be performed.

In fact, if the external test gets no response by spark detector, the internal test allows to verify if the detector is healthy, and then the optical window is dirty, or if it is faulty, and a check is needed.

When in operation, the LAM-612P unit delivers a 90° wide and modulated light beam, which can excite a RIV-601P/S spark detector at a 2m distance (provided all windows are clean).



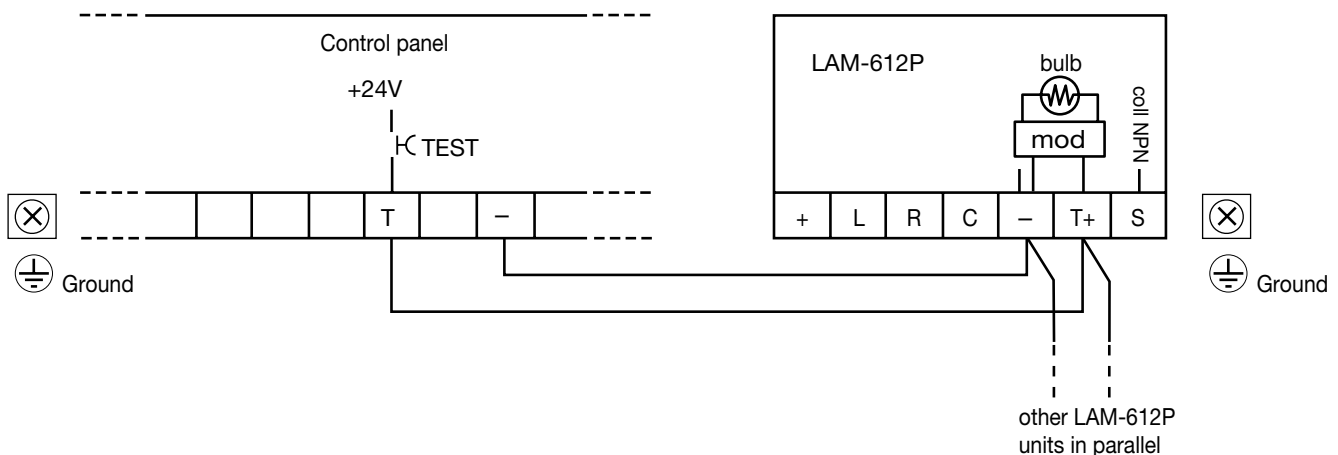
ELECTRICAL WIRING

It is highly recommended to connect the enclosure base to a good ground line using the **ground** terminal provided inside up on the left. Then, connect base and cover using the ground terminal provided inside the base lower on the right and the ground terminal provided inside the cover lower on the left.

All the ground terminals are signalled by ground label. ⊕

The ground connection must be done using a yellow-green conductor and a M4 double crimp eyelet.

The yellow-green ground conductor must be longer than the other conductors.



The "S" terminal must be left open

Note:

The LAM-612P unit can be also used to test the **IR flame detector RIV-601P/F**.

For **manual** test application the **S** terminal must be left open.

For **automatic** test application, the **T+** terminal must be connected to +24V and the **S** terminal must be connected to the **S** terminal of flame detector RIV-601P/F (in this case also the (-) terminal of LAM-612P must be connected to the (-) terminal of RIV-601P/F).

With this connection the flame detector will react by generating a short 0.5 sec. pulse every 4 sec. and will allow the alarm panel to recognise the stand by state (short pulses) from the fire alarm state (permanent on).