

MOUNTING OF SPARK DETECTOR RIV-601P/S WITH SAM-871 MOUNTING FRAME

The spark detector RIV-601P/S is mounted using the SAM-871 mounting frame, which consists of a metal case in two parts: the base to be fixed to the duct, and the lid, which is closed manually by four captive knob screws. Inside both parts, rubber walls are fitted to protect detector from vibrations.

A tempered glass window with aluminum ring is provided on the center base. It is removable using the 4 screws to ease the maintenance operations.

Before replacing the window in its seat, carefully clean the gasket and the mounting surface to ensure the watertight seal. Take care not to tighten too much the screws not to damage their o-ring.

On the duct are to be made a 62mm diameter hole and six holes with appropriate size for the type of mounting (rivets, self-threaded screws or other) taking into consideration that the holes on the frame have a diameter of 6mm (see SAM-871 leaflet).

The first hole is for the detector window. The others are for fixing the base by rivets or self-threaded screws or other, avoiding as much as possible metallic parts protruding inside the duct which can pick up and accumulate long fibres.

Avoid mounting on or just after bends where the particles may be moving tangentially on one side of the ductwork.

In placing the base over the duct, make sure that the window aluminum ring enters the duct.

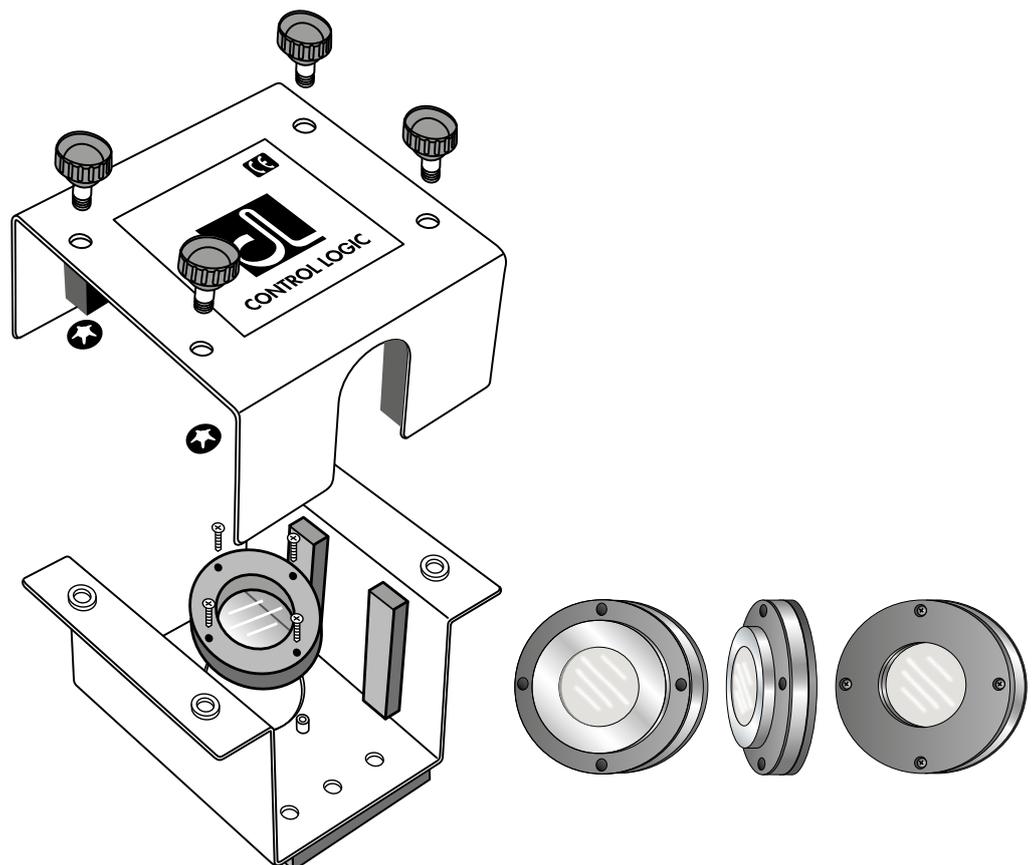
The curved surface, if important, has to be flattened or compensated by a proper adaptor.

Spark detector RIV-601P/S is simply inserted into the base, where, the rubber cushion will protect it from the duct vibration.

Naturally, the detector will first have been wired and tested, following the internal LED signal that lights up at every spark detected. Testing could be made by pressing the TEST button on the control panel or power unit, or by moving a cigarette lighter in front of the window. When inserting the detector into the base make sure it is flush with the base and central to the window, so that it can truly "see" the inside of the duct. The lid is then placed over the detector, exerting a light pressure through the foam rubber walls. The four captive knob screws are then tightened manually. Do not tighten too much.

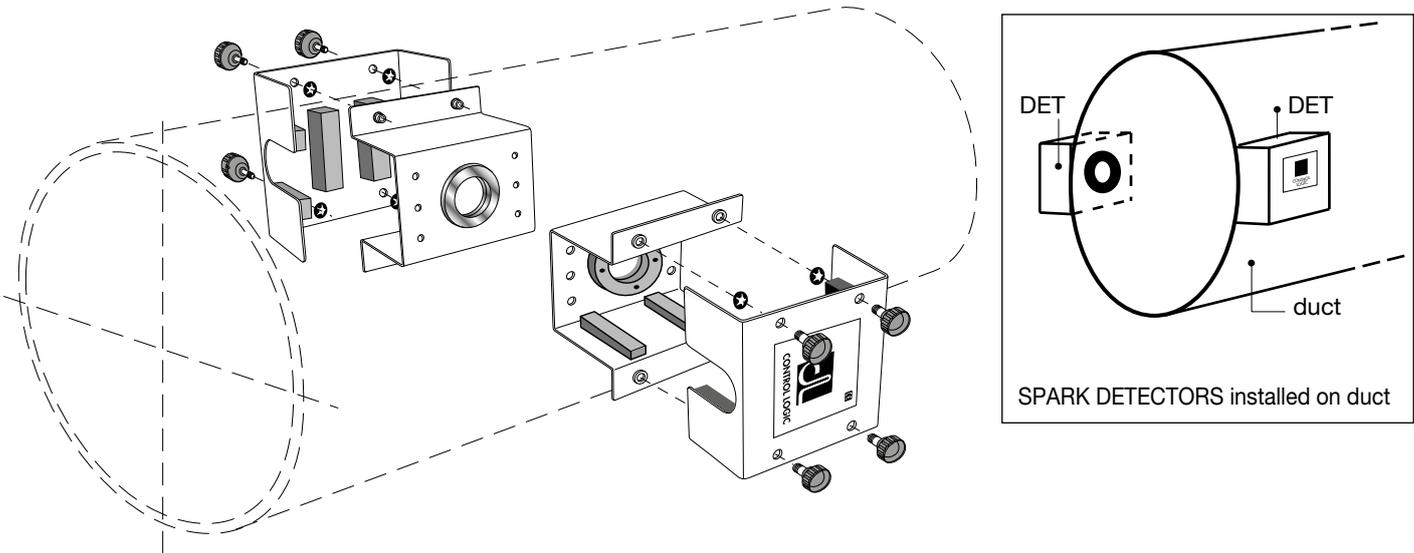
On "small" ducts (less than 500mm diameter), where one detector is sufficient, the spark detector is mounted on the top of the duct to look downwards.

On "large" ducts (over 500mm diameter) the two detectors of the pair are mounted on the sides, horizontally opposite each other.



MOUNTING OF SPARK DETECTOR RIV-601P/S WITH SAM-871 MOUNTING FRAME

Double detector (pair)



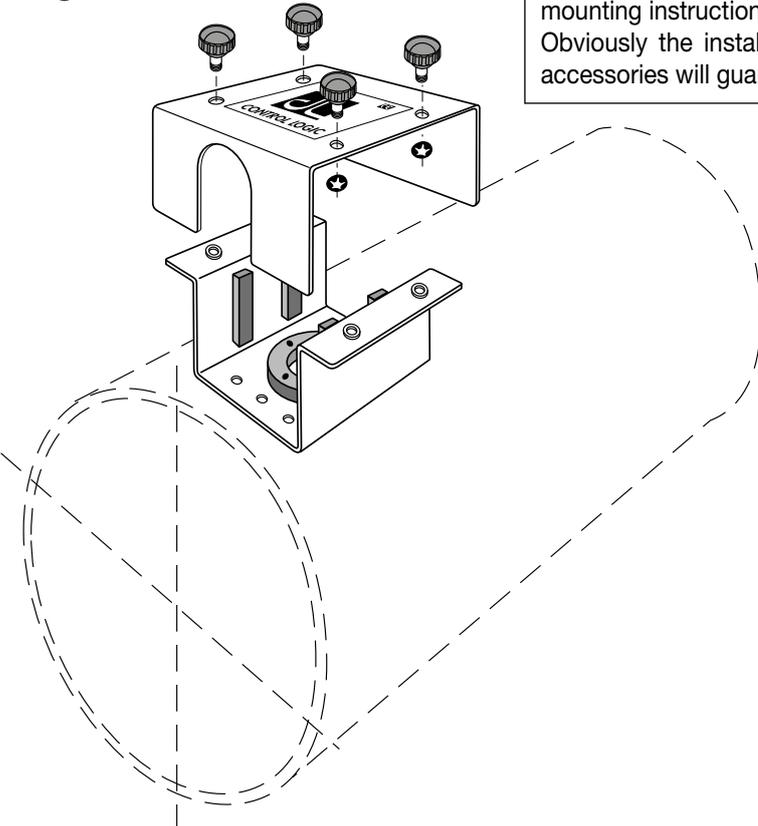
Spark detector is not installed directly over the duct but through the SAM-871 mounting frame which **isolates it** from the duct itself.

Spark detector is put inside the SAM-871 mounting frame and it sees the duct internal through two optical windows. Whatever situation will happen inside the duct does not go externally.

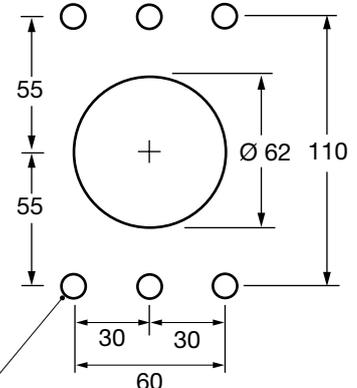
In order to assure the isolation, we strongly recommend the installer to follow the mounting instructions on pages MASP 9-10 of the application manual.

Obviously the installer must take care that mounting operations and related accessories will guarantee the perfect isolation.

Single detector



Mounting holes on ducting
(dimensions in mm)



No. 6 holes with appropriate size for the type of mounting (rivets, self-threading screws or other) taking into consideration that the holes on the frame have a diameter of 6mm