

ADA Fire Control Panel

Technical File
T 09015A

DAD520 - TET502

Description - General information

- The protected Autonomous Detector Activator (ADA) **DAD520** is intended for establishments and premises which are not required to have a central fire detection system.

It ensures direct control of a servo safety device

- This control can be :

- The closing of fire doors
- The triggering of smoke and heat exhaust devices
- The opening of smoke and heat exhaust outlets
- The closing of valves or flaps in an air conditioning conduit.
- The unlocking of emergency exit doors, etc. ...

- The ref. **DAD520** includes a protected detection system and an optic head **TET502**.

- It can control more than one servo device (up to a maximum of 3) providing that they are protecting the same premises or the same volume of space. Detection is carried out from one or two identical sensitive elements.

The DAD510, however, should not be used to control :
 evacuation alarms,
 automatic extinguisher devices
 units depending on line control
 units depending on position control



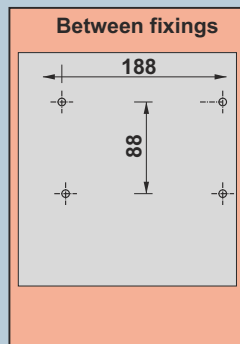
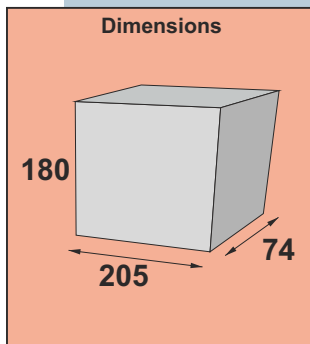
DAD520



TET502



ALL RIGHTS RESERVED. OUR PRODUCTS MAY BE SUBJECT TO MODIFICATION. THEREFORE THIS DOCUMENT CANNOT BE CONSIDERED CONTRACTUAL. ALL MODELS ARE PATENTED. DO NOT LITTER THE PUBLIC HIGHWAY.



Technical Characteristics

- Power supply : Mains 230 V (+/-15%) - 50Hz.
- Secondary power supply: 2 lead batteries 12V - 1.2AH or 1.3AH
- Control voltage : UC=24V +/-10%.
- Output power : 4 W (R=144Ohm) for 4 hrs of autonomy
- Battery output power : 25V < Ubatt0 < 28V
- End of line resistance : 3.3 kohm/1/4 W 10%
- Type of detectors : Conventional, thermo-differential, thermostatic.
- Number of detectors : 2 maximum of the same type, on the detection sensor loop.
- Number of servo devices : 3 maximum, on the control loop 4W maximum
- Number of manual triggers : 2 maximum
- Protection classification : Class II
- Protection index : IP 40.
- Mass : 1.8 kg without battery.
- Dimensions (W x H x D) : 205 x 180 x 74 mm.
- Box : Light grey metal sheet RAL7035

DUPUY EQUIPEMENTS
 Les Ajeux - 72400 La Ferté Bernard - France
 Tel. : +33 (0)2 43 60 78 60 - Fax : +33 (0)2 43 93 41 94
 e-mail : clients@de72.fr



N° Azur 0 810 131 231

www.dupuy-equipements.com

DAD520 - TET502

CONNECTION

Main power source : use 3x1.5mm² cable
Distance resetting (R) : 1 pair 8/10th cable, length 200m maximum.
CRT Contact: The dry contact commutes in alarm status (30Vdc-0.5A)
Control line : 3 Safety devices maximum, 1 pair 1,5 mm² cable type C2, maximum length of 200m, power consumption should be 4 W maximum for 4 hours of autonomy.
Manual Control Panels (MCP) line : 2 maximum, 1 pair 8/10th cable, length 200m maximum.
Detection line : 2 detectors maximum, 1 pair 8/10th cable, length 200m maximum. Be careful to align the poles correctly and the wiring of the end of line resistance on the last detector.

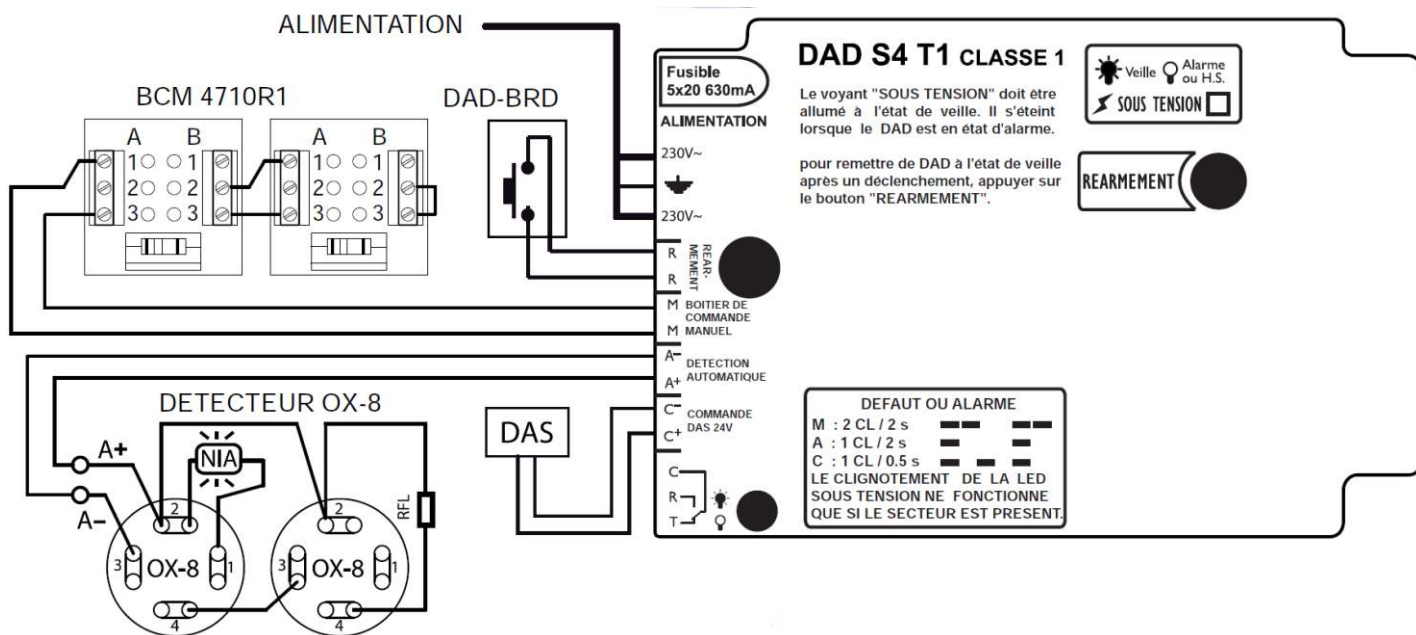
TO PUT INTO USE

When the ADA has been installed, connect it to the main power supply. Press the reset button and the green « stand-by » lamp will light up.

STAND-BY STATUS :

This status is only possible if the connection has been carried out correctly and if the detection devices are in stand-by mode. In this case, simply press the DRP button to put the ADA on stand-by status. This is indicated by a green LED which lights up.

CONNECTION PRINCIPLE



ALARM STATUS :

The alarm status is triggered either by an MCP, the detection of smoke or as a result of a fault in the wiring. The control voltage of 24V drops to 0V (cutting off the current). The green LED first switches off and then starts to flash on and off in order to indicate the cause of the triggering.

TESTING :

Activate the MCP : The ADA goes into alarm status and the LED flashes on and off twice successively every 2 seconds. Reset the MCP and press the Reset Button situated on the facade or on the DRP to put the ADA back in operation.
Carry out a smoke test on the detector : the ADA goes into alarm status and the LED flashes on and off once every 2 seconds. Press the Reset Button situated on the facade or on the DRP to put the ADA back in operation.

ADDITIONAL FUNCTION (testing of servo devices) :

Press the reset button for about 5 seconds in order to put the ADA in alarm status. Press the Reset Button situated on the facade or on the DRP to put the ADA back in operation.

PERIODIC CHECKS AND MAINTENANCE :

Changing the batteries regularly is recommended.

FAULTS :

If the connection is not carried out correctly the ADA cannot be put in stand-by mode.
Check the frequency of the LED flashing in order to find out which line is faulty. (see the TESTING paragraph for more details).
If the green LED is flashing in a regular fashion every half second, it means there is a fault on the ADS control line. Check that the resistance is higher than 120 Ohm at the terminal block and that the free-wheeling diode is not connected the wrong way round.
Note : The free-wheeling diode is not necessary with this ADA.

COMPATIBILITY :

The ADA S4 T1 and T2 are compatible with the following materials :

- BCM NEUTRONIC : BCM 4710R1
- Resetting Button : DAD-BRD
- Detector(s) ESSER : O 3362-F
- Detector(s) FARE : OC05F ; TRC05 ; OY2 ; TVY2
- Detector(s) NEUTRONIC : OX-8
- Detector(s) DETECTOMAT : CT 3000-O ; CT 3002-O
- Action Indicator (NEUTRONIC) : NIA, NIACS, NIAC, NIAE

