

QUICK GUIDE



5-year warranty

PROTECT QUMULUS® automatically comes with a 5-year-warranty! Learn more on [Protectglobal.com/service-support/warranty](https://protectglobal.com/service-support/warranty)

Free technical E-learning

We offer free technical e-learning courses about installation of Fog Cannons™. Enroll on protectglobal.com/e-learning



SECURED IN SECONDS

This quick guide does not replace the installation manual and the recommended technical training course for installers.

DIP switch 10 should be set to ON to let the acoustic alarm activate in case of a fault.

REMEMBER to set the fog time on DIP switch 2, 3 and 4.

Tables for fog time and DIP switch settings, together with QR codes for the installation manual, are displayed in this quick guide.

About avoiding accidental firing

The IEC 62642-8 norm for security fog prescribes a method to avoid accidental firing of fog - e.g.during service. However, the diagram in this quick guide does not include this step as the method used is different from alarm installer to alarm installer.

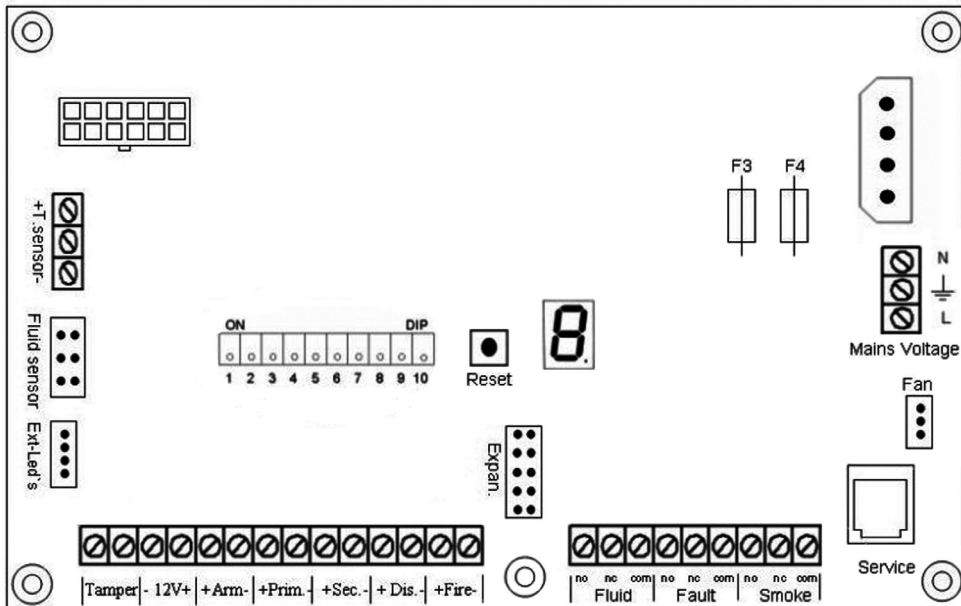
Contact us on our website for more information about technical training courses.

Also, try our free technical e-learning - more information on protectglobal.com/e-learning



SECURED IN SECONDS

Printed circuit board (PCB)



Voltage

PROTECT QUMULUS®
230 V ac (115/130 V ac)

Effect - a few minutes from cold to ready

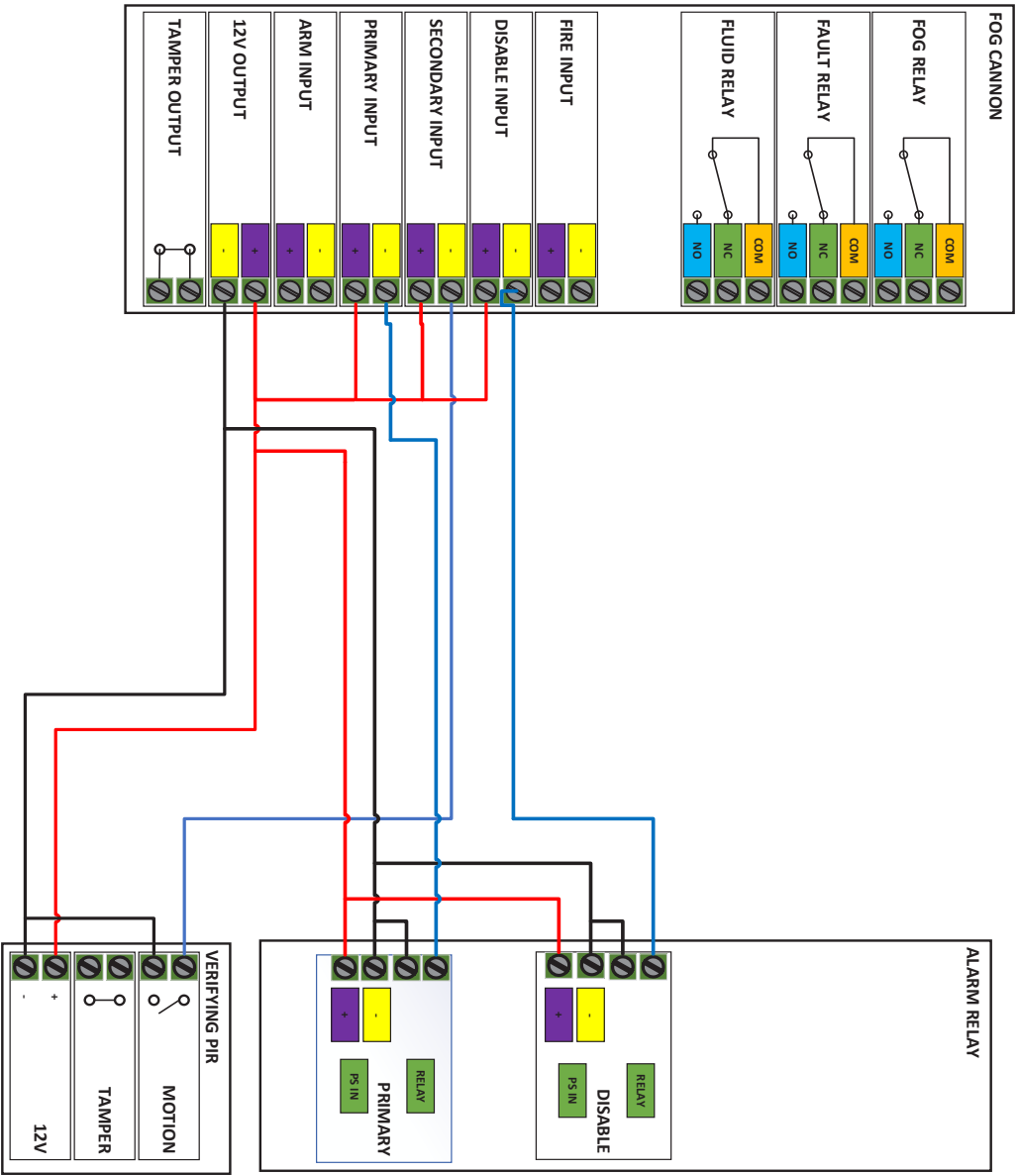
PROTECT QUMULUS®
1050 W

Standby consumption after heating up (on average)

PROTECT QUMULUS®
60 W



SECURED IN SECONDS



Scan and get manuals



EN-FR-IT-ES-DA







DE-NO-SV-NL-RUS-PT



PL-HU-LT-TR-RO

Action

Check

<p>1</p> <p>Connect the unit to 230/130/115VAC + Earth. It will take the unit 10-45 min. to warm up to operating temperature.</p>	<p>Check that the phase and neutral wires are connected correctly.</p>
<p>2</p> <p>DIS Connect the DISABLE signal to the RELAY terminals on relay. Connect 12V Output to to PS IN "+" and "-" on relay. When the alarm is set (armed) the 12V signal must be removed.</p>	<p>Check correct polarity +/-. When the alarm is disarmed, a 'd' must be shown in the display. When the alarm is armed, the 'd' must disappear (input dead).</p>
<p>3</p> <p>PRIM Connect the PRIMARY signal to the RELAY terminals on relay. Connect 12V Output to to PS IN "+" and "-" on relay. If the alarm signal is closed in the event of a burglary DIP 6 is set to ON (recommended). If alarm signal is opened, DIP 6 is set to OFF.</p>	<p>In the event of an alarm signal, a 'P' must be shown in the display. In the event of malfunction, check that 12 V in and out is working and that DIP switch 6 is set correctly.</p>
<p>4</p> <p>SEC & ARM These inputs are not normally used with Ajax. Set DIP 5 and 7 to OFF. If the alarm signal is closed in the event of a burglary DIP 6 is set to ON (recommended). If alarm signal is opened , DIP 6 is set to OFF.</p>	<p>Check that "A" and "S" are shown in the display.</p>
<p>5</p> <p>The unit is ready for testing when it is fully warmed up. Remember to set a fog time on the DIP switches 2, 3 and 4.</p>	<p>The display will scroll continuously, typically: H-r-d-A-P-S-bAt-bt-norc-c (see meanings in the manual). In order to fire a fog, the following must be displayed: r-A-P-S. Meaning: r- The unit is warm A-P-S All triggers are active and DIS (d) is not blocking the machine.</p>
<p>6</p> <p>Before you finish the installation, also consider the need and method of connecting the outgoing signals. The diagram on the reverse page only shows the principle of the relay connections.</p> <p>Outgoing feedback option. MultiTransmitter - Use PROTECT MultiCard™ expansion card to provide most Status and Error codes via Ajax MultiTransmitter.</p> <p>Outgoing feedback option. IntelliCloud™, free cloud based feedback - use PROTECT IPCard™ expansion card to provide feedback via smartphone or PC. Internet connection required via RJ45.</p> <p>Outgoing feedback option. Use Ajax wireless output relays, eg: door contacts to provide.</p> <p>Tamper circuit is not shown. The Fog Cannon has a normal tamper switch, which can be integrated in a usual tamper circuit (additional relay required).</p> <p>Always remember to make a full scale test to check that, the alarm system, fog security system and PIR sensor are working together and to ensure that the amount of fog will cover the secured area as expected.</p>	<div style="display: flex; flex-wrap: wrap; justify-content: space-around;"> <div style="text-align: center;">  <p>PROTECT MultiCard™</p> </div> <div style="text-align: center;">  <p>Ajax MultiTransmitter</p> </div> <div style="text-align: center;">  <p>PROTECT IntelliCloud™</p> </div> <div style="text-align: center;">  <p>PROTECT IPCard™</p> </div> </div>

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Self fit relays **only** require a software update for Fog Cannon to become Ajax ready, this software, version 3.11, can be found on the PROTECT Download Center. IntelliConnector required.

Ajax relays can be after installed in all PROTECT Fog Cannons® using a complete kit from PROTECT.



PROTECT IntelliConnector™



PROTECT Download Center

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Relay Settings in the Ajax app

1. Open the Devices menu.
2. Select the required Relay and go to its Settings
3. Set the required parameters. They depend on the operating modes of the fog generator.

You can find detailed information in the documentation for the device.

- Relay operating mode: pulse or bistable.
- Pulse duration (if pulse mode is selected, the range is 0.5 to 255 seconds).
- Contact state: normally closed or normally opened.

If you use a fog generator that is activated only when the system is armed, configure the scenario for the required Relay so that it switches the generator to the armed mode and back synchronously with the security system.

If you want the fog generator to be activated when the detectors raise the alarm or when the panic Button or SpaceControl is pressed, create a scenario.

The scenarios are created in the relay settings (Ajax App > Devices > Relay > Settings > Scenarios)



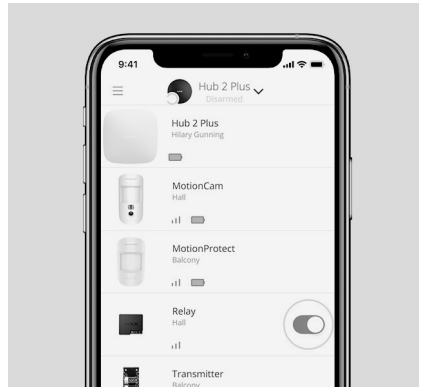
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Controlling a fog cannon in the Ajax app

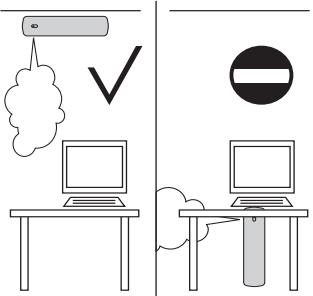
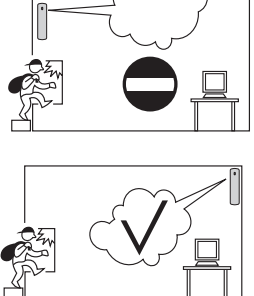
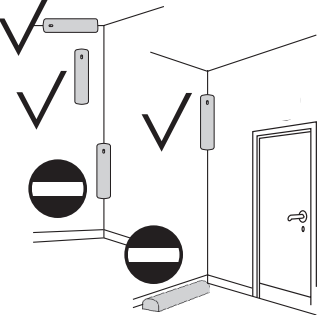
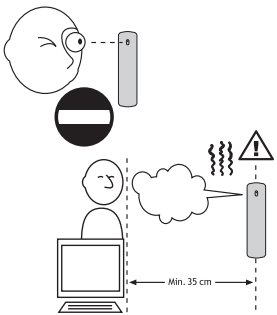
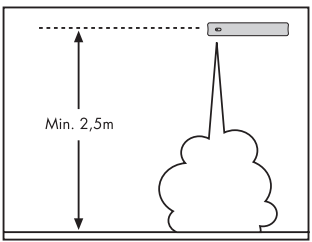
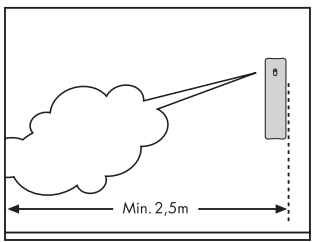
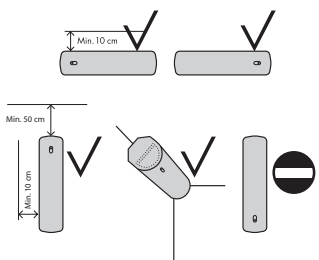
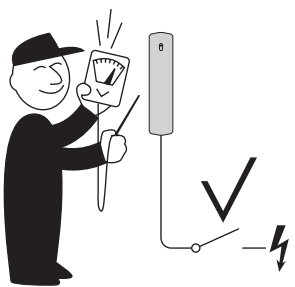
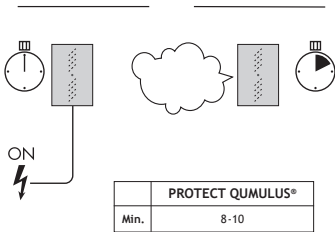
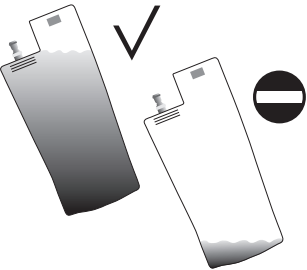
Press the switch in the relay field, and the state of the contacts will change to the opposite. When activated, the generator will start releasing fog.

Note that generators with multiple control inputs should be switched previously in the armed mode. Only after that you can activate the fog emission.

If the fog generator operates in bistable mode: after eliminating the cause of the alarm, press the switch again so that the system returns to the original state and is able to respond to the alarm next time.



Mounting and positioning

<p>The fog needs free passage</p> 	<p>Ensure immediate coverage of possible access points</p> 	<p>Place the Fog Cannon™ out of reach</p> 				
<p>Min. safety distance is 35 cm</p>	<p>Min. installation distance from objects is 2,5 m</p>	<p>Min. installation distance from objects is 2,5 m</p>				
						
<p>For horizontal mounting, place the Fog Cannon™ as shown in the picture</p>	<p>Min. installation distance from objects is 2,5 m</p>	<p>Mounting and adjusting of the nozzle on cold machine</p>				
		 <table border="1" data-bbox="911 1321 1111 1376"> <tr> <td colspan="2" style="text-align: center;">PROTECT QUMULUS®</td> </tr> <tr> <td>Min.</td> <td>8-10</td> </tr> </table>	PROTECT QUMULUS®		Min.	8-10
PROTECT QUMULUS®						
Min.	8-10					
<p>Check the fluid level after testing (hand over the Fog Cannon™ with a full fluid bag)</p> 						

DIP switch settings

DIP	Function
1	Heat disable On = The heating element disconnects if disable is activated
2	Fog time
3	Fog time
4	Fog time
5	Arm*
6	Primary*
7	Secondary*
8	Fire-alarm delay**
9	Reserved. Leave in OFF position
10	Error indicator On = Beeper connected

- * ON = normal open
 OFF = normal closed
 ** ON = delay is active

PROTECT QUMULUS®				
DIP Settings			Fog Time	Fog Volume
DIP 2	DIP 3	DIP 4		m ³
OFF	OFF	OFF	Demo	-
ON	OFF	OFF	20s	140
OFF	ON	OFF	40s	230
ON	ON	OFF	60s	400
OFF	OFF	ON	60s + 2 min.	600
ON	OFF	ON	60s + 4 min.	900
OFF	ON	ON	-	-
ON	ON	ON	-	-