



VEHICLE PROTECTION

ROSY – RAPID OBSCURING SYSTEM

SURVIVE ON THE MOVE

Rheinmetall's smoke protection system ROSY offers military and civilian vehicles as well as their crews protection against surprise attacks and ambushes, e.g. on reconnaissance patrols and when travelling in convoy.

Unlike conventional smoke and obscurant systems, ROSY can create dynamic smoke screens within one second in addition to the instantaneous, large-area, multispectral interruption of the line of sight. Even moving objects can be shielded long-term.

ROSY's multi-mission capability assures 360° protection from multiple attackers without reloading, including stream and wave attacks. Moreover, thanks to effective screening in the visual and infrared spectrums, including integrated IR jamming and decoying effects, ROSY effectively counters conventional weapons, weapons with optical devices and laser distance measurement.

MAIN FEATURES

- Smoke protection in line-of-sight
- Immediate and dynamic screening
- Multispectral effectiveness
- 360° protection
- Multiple use without reloading
- Minimum weight and recoil
- Connectivity for remote controlled firing
- Top attack protection against hemispherical threats
- Anti-riot capabilities (non-lethal)
- Applicable for a wide range of platforms, e.g.: Tanks, light military vehicles, "Special Forces" vehicles, trucks, uncrewed ground vehicles, and the integration into weapon stations

ROSY SYSTEM CONFIGURATION

Launcher

- 1 to 4 launchers per vehicle
- 1 to 3 magazine rows per launcher
- Optional: One-click adapter



Manual control unit

- 1 Manual Control Unit (MCU) with integrated emergency power supply and CAN-Bus or EtherCAT FSoE (Fail Safe over EtherCat) interface

TECHNICAL DATA

Launcher

Size single row (L x W x H)	565 x 441 x 165 mm
Size two rows (L x W x H)	565 x 452 x 216 mm
Size three rows (L x W x H)	565 x 463 x 266 mm
Weight (single row)	<12 kg fully loaded

Manual Control Unit (MCU)

Dimensions (L x W x H)	226 x 173 x 96 mm
------------------------	-------------------

Weight	2 kg
--------	------

Safety

SIL-2	In accordance with IEC 61508
-------	------------------------------

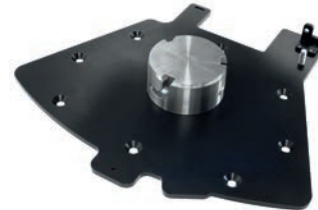
Ammunition

Calibre	40 x 280 mm
---------	-------------

Types	Multispectral smoke (red phosphorus), Teargas (CS), Bang-Marker, Practice and Test modules
-------	---

One-click adapter (optional)

To mount the system, there is no need for tools. The “one-click” adapter is particularly suitable for quick and easy “fitted-for” installations.



360° PROTECTION



t = 0.5s



t = 0.9s



t = 1.5s

We reserve all rights in connection with this document. Data, drawings and descriptions have only an information value. Modifications are reserved. ROSY® is a registered trademark of Rheinmetall Waffe Munition GmbH.

Rheinmetall Waffe Munition GmbH

www.rheinmetall.com/en/rosy