BERTIN

SaphyGATE GN

Gamma-neutron portal monitor

A sensitive portal monitor for passive detection of radioactive material in people and cargo.



Detector type
Plastic scintillators with photomultipliers [1]

IP rating
IP65 [1]

Specifications

DETECTOR

Radiation	Gamma and neutrons	[1]
Detector type	Plastic scintillators with photomultipliers	[1]
Neutron detection	Helium-3-free; gamma/neutron discrimination	[1]
Detector modules	1–4	[1]
Scintillators per module	4 (standard) or 8 (high sensitivity)	[1]

PERFORMANCE

Background compensation	Compensates gamma background attenuation from vehicle and cargo	[1]

MEASURING RANGE

Gamma energy range	50 keV–7 MeV	[1]

MECHANICAL

Dimensions	Detector cabinet: 1,900 × 660 × 430 mm (H × W × D)	[1]
Weight	Detector approx. 160 kg	[1]

ENVIRONMENT & RATINGS

IP rating	IP65	[1]

GENERAL

Standard	ANSI N42.35 and N42.42	[1]
Remote alarms	Audible and visual indication optional	[1]

Sources

[1] **SaphyGATE GN**
Bertin Technologies · product-page · product page; Product page – Datasheet tab · checked 2026-10-16
https://www.bertin-technologies.com/product/radiation-portal-monitors/saphygate-gn/

Every value is taken from the manufacturer’s own document; the number after the value refers to the source list. Always check against the latest datasheet before ordering.

The data comes from the manufacturer’s published documents. Manufacturers may change specifications; the current configuration and performance are confirmed in the quotation.