



FEEL SECURE



FIRE SAFETY SYSTEMS & PA/VA

Beam detection for complex environments

Designed for complex environments, Comelit-PAC beam smoke detectors deliver reliable smoke detection over long distances. With simplified alignment and a choice of addressable or conventional versions, they offer a practical solution for a wide range of installation requirements.



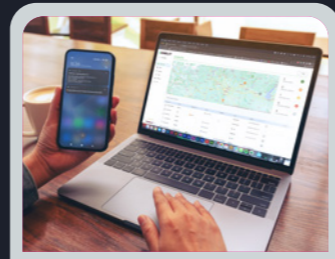
Long-distance detection

Designed to cover distances from 5 to 120 metres, beam detectors are ideal for both confined spaces and large open areas, including warehouses and factories.



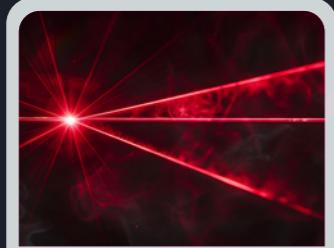
Flexible design

With addressable and conventional versions available, and compatibility with third-party systems, Comelit PAC beam detectors offer easy integration into both new and existing installations.



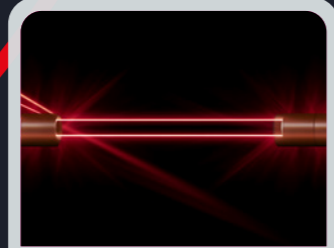
Advanced management

Addressable versions provide flexible configuration and monitoring options, allowing management directly from LogiFire control units, through the cloud, or via the MyComelit app.



Simplified installation

With a smart alignment system and integrated laser, installation and commissioning are quicker, easier and more precise.



Automatic optimisation

The barrier continuously monitors the transmitted and returned signals, automatically optimising gain and power in real time to deliver consistent sensitivity.



Low power consumption

Designed to consume less than 7mA, even in alarm mode, the device helps minimise the overall load on the loop, allowing multiple devices to be connected on the same line.



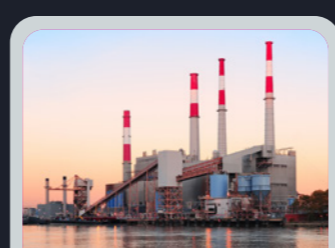
Automatic signal compensation

By compensating automatically for dust build-up and small structural movements over time, the system helps ensure reliable operation and reduced maintenance.



Dual power supply

With support for either loop power or an external PSU, multiple barriers can be connected on the same line, reducing wiring complexity and increasing design flexibility.



Reliable performance

An IP65 rating ensures dependable performance in challenging indoor and outdoor environments, helping to maintain continuous detection over time.

BEAM DETECTORS				
	41BF1060	41BF1120	43BFC060	43BFC120
	ADDRESSABLE BEAM DETECTOR 5-60M	ADDRESSABLE BEAM DETECTOR 50-120M	CONVENTIONAL BEAM DETECTOR 5-60M	CONVENTIONAL BEAM DETECTOR 50-120M
MAIN FEATURES				
Loop powered	Yes	Yes	—	—
Built-in laser pointer	Yes	Yes	Yes	Yes
Built-in short-circuit isolator	Yes	Yes	—	—
Reflector included	Yes	Yes	Yes	Yes
LED indicators	1	1	1	1
Optical range (m)	5 ÷ 60	50 ÷ 120	5 ÷ 60	50 ÷ 120
Protected area dimensions	1600 sqm (EN 54-14)	1600 sqm (EN 54-14)	1600 sqm (EN 54-14)	1600 sqm (EN 54-14)
Drift compensation	Yes	Yes	Yes	Yes
Polarity inversion protection	Yes	Yes	Yes	Yes
Alarm level adjustment	1 - Low (25% obs), 2 - Normal (35% obs), 3 - Medium (50% obs), 4 - High (60% obs)	1 - Low (25% obs), 2 - Normal (35% obs), 3 - Medium (50% obs), 4 - High (60% obs)	1 - Low (25% obs), 2 - Normal (35% obs), 3 - Medium (50% obs), 4 - High (60% obs)	1 - Low (25% obs), 2 - Normal (35% obs), 3 - Medium (50% obs), 4 - High (60% obs)
Wall mounting bracket	Yes, optional (Art. 48SBF000)	Yes, optional (Art. 48SBF000)	Yes, optional (Art. 48SBF000)	Yes, optional (Art. 48SBF000)
EN regulations	EN 54-17, EN 54-12	EN 54-17, EN 54-12	EN 54-12	EN 54-12
HARDWARE SPECIFICATIONS				
IP protection rating	IP65	IP65	IP65	IP65
Type of finishing materials & color	ABS - White, Black	ABS - White, Black	ABS - White, Black	ABS - White, Black
Operating temperature (°C)	-10 ÷ 60	-10 ÷ 60	-10 ÷ 60	-10 ÷ 60
Operating humidity (RH max @40°C) (%)	0 ÷ 96	0 ÷ 96	0 ÷ 96	0 ÷ 96
Dimensions HxWxD (mm)	121x187x73	121x187x73	121x187x73	121x187x73
Max. angular misalignment of the optical part (±, °)	0.5	0.5	0.5	0.5
Max. angular misalignment of the reflector (±, °)	1	1	1	1
ELECTRICAL SPECIFICATIONS				
Power supply	16 - 32VDC (Nom. 27VDC)	16 - 32VDC (Nom. 27VDC)	16 - 32VDC (Nom. 27VDC)	16 - 32VDC (Nom. 27VDC)
Maximum current consumption when powered by the loop (standby) (mA)	6.4	6.4	—	—
Maximum current consumption when powered by the loop (in alarm) (mA)	<7 (13 with LED rep. connected)	<7 (13 with LED rep. connected)	—	—
Maximum current consumption with external power supply (standby) (mA)	1	1	5,5	5,5
Maximum current consumption with external power supply (in alarm) (mA)	7	7	14	14

A reliable choice for every project.

Designing a fire detection system means meeting technical and regulatory requirements that extend beyond the product itself. Comelit PAC beam detectors are certified to EN 54-12 and, in addressable versions, comply with EN 54-17 thanks to the integrated short-circuit isolator, helping to ensure maximum system continuity. The result is a reliable, compliant solution for even the most complex environments. Wide coverage helps reduce installation and maintenance costs, while integration with the Comelit PAC ecosystem makes long-term management, support and updates easier.



SINCE 1956, COMELIT HAS BEEN DEDICATED TO TURNING OUR VISION OF TOTAL SECURITY INTO A REALITY.

A Legacy of Leadership and Innovation

For nearly 70 years, we have been recognised internationally as a leader in door entry systems, celebrated for the quality, innovation, reliability, and ease of installation of our products.

Over time, we have expanded our expertise to encompass a full range of security solutions, including access control, fire safety systems, CCTV, home automation and intruder alarms.

Our growth has been strengthened by strategic acquisitions, which, alongside our research and development centres in Rovetta, Bergamo, Tunis, and Paris, have established specialised hubs of expertise. These include PAC in the UK, Teletek Electronics in Bulgaria, Blueprint in Italy, and, most recently, Ingenium in Spain.

Today, our global footprint extends far beyond our Rovetta headquarters, with 9 international subsidiaries, 8 research centres, over 1,000 employees, and a presence in more than 90 countries.

This robust structure enables us to deliver greater value to our partners and end-users alike, fulfilling our commitment to creating a safer world every day.



The history of Comelit is shaped by the trust and confidence of those who have chosen us for their projects and achievements.

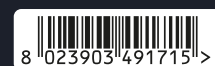


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