



NOTIFIED BODY No. 1293

CERTIFICATE OF CONSTANCY OF PERFORMANCE

No. 1293 – CPR – 0946

In compliance with *Regulation (EU) No 305/2011 of the European Parliament and of the Council of March 9th, 2011* (the Construction products Regulation or CPR), this certificate applies to the construction product

**Conventional Linear detector using an optical light beam
SensoMAG BM120**

**SensoMAG BM60, Precise BM120, Precise BM60,
Herald BM120, Herald BM60,
RunwayLeo BM120, RunwayLeo BM60**

For specifications see Annexes to this certificate

placed on the market under the name or trade mark of

Teletek Electronics JSC

2, Iliyansko Shose Str., NPZ Voenna Rampa, 1220 Sofia, Bulgaria

and produced in the manufacturing plant

Teletek Electronics JSC

2, Iliyansko Shose Str., NPZ Voenna Rampa, 1220 Sofia, Bulgaria

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s)

EN 54-12:2015

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction product.

This certificate was first issued on November 26th, 2025 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Nová Dubnica, November 26th, 2025



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Head of NB No. 1293

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Annex 1 to Certificate No. 1293 - CPR - 0946 from November 26th, 2025

General description

SensoMAG BM is a conventional, reflector type, linear beam detector. The detector is compatible for operation with conventional fire alarm panels, including MAG series, produced by Teletek Electronics JSC. The detector is powered on from an external power supply unit with back-up battery.

SensoMAG BM consists of two parts: main module including a transmitter and a receiver of the emitted beam light, and a reflector plate. The main unit and the reflector are mounted facing each other on opposite walls of the protected premises, as there must be a clear direct (horizontal) viewing space between them without presence of any obstacles (as ducts, HVAC pipes, pending objects, etc).

The principal of operation of SensoMAG BM is based on detection of attenuation of the signal returned to the receiver. The reducing of the signal is due to obscuration of the light beam caused by visible smoke presence in the space between the main unit and the reflector.

Technical specifications

external power supply voltage	24V DC $\pm$ 10%
Range:	
- SensoMAG BM60	from 5 m to 60 m
- SensoMAG BM120	from 50 m to 120 m
Type of the reflector	prismatic
Optical wave length - smoke detection - NIR	950 nm
min. height mounting (people moving area)	2.7 m
Distance between two beam detectors	15 m
Dimensions	187 mm / 121 mm / 73 mm
Temperature conditions	-10 °C up to 55 °C

Nová Dubnica, November 26th, 2025



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Annex 2 to Certificate No. 1293 - CPR - 0946 from November 26th, 2025

Products parameters:

Essential characteristics	Harmonised technical specification	Performance
	EN 54-12:2015	
Operational reliability:		
Individual alarm indication	4.2.1	Pass
Connection of ancillary devices	4.2.2	
Manufacturer's adjustments	4.2.3	
On-site adjustment of response value	4.2.4=N/A	
Protection against the ingress of foreign bodies	4.2.5	
Monitoring of detachable detectors and connections	4.2.6=N/A	
Requirements for SW controlled detectors (when provided)	4.2.7	
Nominal activation conditions / Sensitivity:		
Reproducibility	4.3.1	Pass
Repeatability	4.3.2	
Tolerance to beam misalignment	4.3.3	
Rapid changes in attenuation	4.3.4	
Response to slowly developing fires	4.3.5	
Optical path length dependence	4.3.6	
Stray light	4.3.7	
Tolerance to supply voltage:		
Variation in supply parameters	4.4	Pass
Performance parameters under fire conditions:		
Fire sensitivity	4.5	Pass
Durability of nominal activation conditions / sensitivity:		
Temperature resistance		Pass
Dry heat (operational)	4.6.1.1	
Cold (operational)	4.6.1.2	
Humidity resistance		
Damp heat, steady-state (operational)	4.6.2.1	
Damp heat, steady-state (endurance)	4.6.2.2	
Vibration resistance		
Vibration (endurance)	4.6.3.1	
Impact (operational)	4.6.3.2	
Electrical Stability		
EMC immunity (operational)	4.6.4	
Corrosion resistance		
Sulphur dioxide (SO ₂) corrosion (endurance)	4.6.5	

Nová Dubnica, September 26th, 2025



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