

Certificate of Product Approval

Certificate Number: 1054c-(cl-2)

Issue: 02

Bosch Security Systems BV

Torenallee 49
5617 BA Eindhoven
The Netherlands



is certified by BRE Global Ltd. and is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirement(s) of the standards as detailed below:

Products

Control and Indicating Equipment

Bosch / PAVIRO VACIE

(refer to Appendix for details)

Standards

ISO 7240-16:2007

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.

Signed for BRE Global Ltd

E Mattie-Suleiman

Verifier

12 June 2020

Date of Issue

28 July 2017

Date of First Issue



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Appendix to Certificate No: 1054c-(cl-2)

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Bosch Security Systems BV

Certified Product	Description	LPCB Ref.No.
Bosch / PAVIRO VCIE	<p>Voice Alarm Control and Indicating Equipment</p> <p>Incorporating the following modules:</p> <p>PVA-4CR12 PAVIRO Controller</p> <p>PVA-4R24 PAVIRO Router</p> <p>PVA-2P500 PAVIRO Power Amplifier 2x500W</p> <p>PVA-15ECS PAVIRO Emergency Call Station</p> <p>PVA-15CST PAVIRO Call Station</p> <p>PVA-20CSE PAVIRO Call Station Extension</p> <p>PVA-1KS PAVIRO Call Station Key Switch</p> <p>PVA-1EB PAVIRO Call Station Emergency button</p> <p>PLN-24CH12 Power Supply Module</p> <p>OM-1 Network Module</p> <p>LT-802GBTME Network Switch</p> <p>Certified with the following options with requirements from ISO 7240-16:</p> <p>7.2 Alert signal</p> <p>7.5 Audible warning</p> <p>7.8.2 Silencing of the voice-alarm condition with a manual control</p> <p>7.9.2 Reset of the voice-alarm condition with a manual control</p> <p>7.11 Voice-alarm condition output signal</p> <p>8.2.6.1 Faults related to the transmission path to the emergency detection system</p> <p>8.2.6.2 Faults related to emergency loudspeaker zones</p> <p>11 Manual mode control</p>	1054c/02

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	<p>11.3 Indication of the emergency loudspeaker zones in the fault-warning condition</p> <p>13 Emergency microphone</p> <p>13.2 Microphone priority</p> <p>13.3 Microphone emergency loudspeaker zone control</p> <p>14.14 Redundant power amplifiers</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. The VACIE is approved when connected to PLN-1EOL or PVA-1WEOL end of line board or with activated impedance measurement. 2. The VACIE speaker lines are monitored by use of end line modules namely PLN-1EOL end of line board, PVA-1WEOL addressable end of line board or impedance measurement. 3. The PVA-15CST call station requires the PVA-1KS and PVA-1EB in order to meet option with requirement clause 10 and 12 of ISO 7240-16. 4. The PVA-20CSE is approved when connected with PVA-15CST call station 5. The following IP30 cabinets have been approved for use with PAVIRO:- <ul style="list-style-type: none"> - Rittal TS8 based rack, with a lockable glass door, side panels, temperature controlled top fans and having a fixed frame with a maximum height of 42 HU (i.e. TS-IT series) or a lockable swing frame with a maximum height of 40 HU (i.e. TS-series). - Schroff (20130073 PRAESIDEO) - Diamond 19 Inch Cabinet (Manufacturer: E.Lan) - Knuerr Miracel 2 (Manufacturer: Knürr GmbH) 	

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	<p>6. The following SFP Modules have been approved for use with PAVIRO when connected to the network switch LT-802GBTME:-</p> <ul style="list-style-type: none"> - AC-SFP-LX-E-10 Single mode 1310nm SFP Module - AC-SFP-SX-E Multi-mode 850nm SFP Module <p>7. This certificate is valid only when the installation has been performed in accordance with the "ISO 7240-16 Installer checklist".</p>	

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