

## Certificate of Product Approval

Certificate Number: 1054b-(cl-2)

Issue: 05

### 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

**EN 54-4:1997 + A1:2002 + A2:2006**

**EN 54-16:2008**

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

25 October 2017

Date of Issue

28 October 2015

Date of First Issue



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## Appendix to Certificate No: 1054b-(cl-2)

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### Bosch Security Systems BV

Certified Product	Description	LPCB Ref.No.
Bosch / PAVIRO VACIE	<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 2x500 W Amplifier</p> <p>PVA-15CST PAVIRO Call Station</p> <p>PVA-15ECS PAVIRO Call Station</p> <p>PVA-20CSE PAVIRO Call Station Extension</p> <p>PVA-1KS PAVIRO CST Key Switch</p> <p>PVA-1EB PAVIRO CST 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 EN54-16:</p> <p>7.3 Audible Warning</p> <p>7.5 Phase evacuation</p> <p>7.6.2 Manual silencing of the voice alarm condition</p> <p>7.7.2 Manual reset of the voice alarm condition</p> <p>7.9 Voice alarm condition output</p> <p>8.3 Indication of faults related to the transmission path to the CIE</p> <p>8.4 Indication of faults related to voice alarm zones</p> <p>10 Voice alarm manual control</p> <p>12 Emergency microphone(s)</p> <p>13.14 Redundant power amplifier</p>	1054b/02

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Certified Product	Description	LPCB Ref.No.
	<p>Notes:</p> <ol style="list-style-type: none"> <li>The VACIE is approved when connected to PLN-1EOL or PVA-1WEOL end of line board or with activated impedance measurement.</li> <li>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.</li> <li>The PVA-15CST call station requires the PVA-1KS and PVA-1EB in order to meet option with requirement clause 10 and 12 of EN 54-16.</li> <li>The PVA-20CSE is approved when connected with PVA-15CST call station</li> <li>The following IP30 cabinets have been approved for use with PAVIRO:-               <ul style="list-style-type: none"> <li>- 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).</li> <li>- Schroff (20130073 PRAESIDEO)</li> <li>- Diamond 19 Inch Cabinet (Manufacturer: E.Lan)</li> <li>- Knuerr Miracel 2 (Manufacturer: Knürr GmbH)</li> </ul> </li> <li>The following SFP Modules have been approved for use with PAVIRO when connected to the network switch LT-802GBTME:-               <ul style="list-style-type: none"> <li>- AC-SFP-LX-E-10 Single mode 1310nm SFP Module</li> <li>- AC-SFP-SX-E Multi-mode 850nm SFP Module</li> </ul> </li> <li>This certificate is valid only when the installation has been performed in accordance with the "EN54-16 Installer checklist".</li> </ol>	

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