

<b>Technical Information</b>	Date: 26.05.2015 Official: Marier Department.: ST-FIR/MKP3
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<b>Tech. Information No.</b>	1924 / 2015
<b>Subject:</b>	The relays of the FLM-420-RLV8-S cannot be activated

<b>Short Description:</b>	Bending the FLM-420-RLV8-S can damage the PCBA. Test the relays during commissioning and maintenance.
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<b>Hardware</b> <input checked="" type="checkbox"/>	<input type="checkbox"/> Device	<input type="checkbox"/> Module	<input checked="" type="checkbox"/> PCBA
<b>Software</b> <input type="checkbox"/>	<input type="checkbox"/> Application	<input type="checkbox"/> Driver / Extension	<input type="checkbox"/> Firmware

Affected Products (details)	CTN	SAP no.	Aff. version	New version
LSNi interface with 8 dry contacts	FLM-420-RLV8-S	F.01U.033.247		*(page 3)

<b>Number of delivered devices</b>		
<b>Period of delivery</b>	from:	to:
<b>Affected serial numbers</b>	from:	to:

Priority Level	Criterion
I <input type="checkbox"/>	The change has to be made <b>immediately</b> (see dates below)
II <input type="checkbox"/>	The change has to be made during the next inspection.
III <input checked="" type="checkbox"/>	Change has to be made, if the error pattern recurs and with new installations.
None <input type="checkbox"/>	General Information (like new tool, new feature, new SW release)

Action Plan	
<input checked="" type="checkbox"/>	Inform customers
<input type="checkbox"/>	Arrange re-work of stock (NSO)
<input type="checkbox"/>	Arrange re-work of stock (customer)
<input type="checkbox"/>	Arrange re-work of installed products
<input type="checkbox"/>	See detailed actions on following pages

<b>Start Date</b>		<b>Completion Date</b>	
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**Error(s) and Effect(s)**

It's impossible to change the state of all eight relay outputs of the FLM-420-RLV8-S, neither through a RPS rule or a manual activation via the HMI of the MPC.

Depending on the "usage type" (NAC, Door Holder, Control) and "stand-by mode" (ON, OFF) settings, the output on a damaged FLM-420-RLV8-S will generate an 'Activation Failed' or "Fault" message.

Exception: Usage type "Status" will not generate a "Fault" or "Activation Failed" message.

**Cause**

A broken resistor on the PCBA of the FLM-420-RLV8-S leads to the malfunction of the relays.

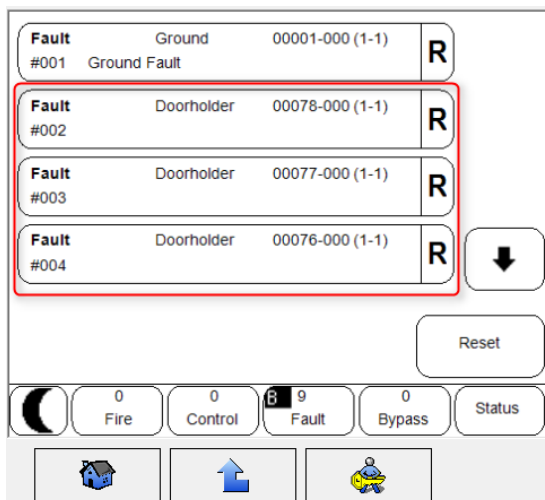
The breakdown of the resistor is caused by bending the PCBA.

**Action(s)**

Because the PCBA can bend during installation, it's recommended to test each single relay output during the commissioning phase or maintenance check.

Test procedure:

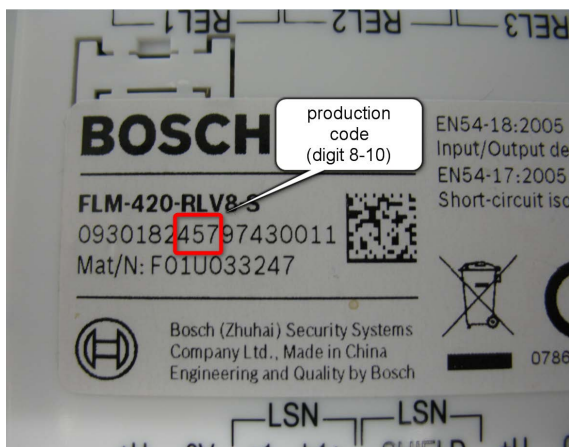
- Assign an address to all eight relay outputs and select usage type "door holder" with standby mode ON (default)
- Upon re-configuration and system re-boot all eight "door holder" outputs of a faulty FLM-420-RLV8 will be displayed in FAULT.



When a faulty FLM-420-RLV8-S is identified in the field, please start a RMA procedure for the replacement with the comment CAR150139.

In order to eliminate the root cause of the failure, our engineers optimized the plastic housing. This will prevent to bend the PCBA when it's exposed to mean pressure.

\* The optimized housing can be identified through the production code, starting with production code '519' (March 2015).



Additional to the functional test after manufacturing the PCBA, a complete functional test is currently performed at our distribution centre in Tilburg. This ensures that all FLM-420-RLV8-S modules currently leaving our distribution centre are 100% functional.

Required Components	Part no.

#### Attachment(s)

Print out of this template is not subject of the updating service. Only the version in the Intranet is always up to date.

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<b>BU Manager</b>	Knauel	<b>Clerk in Charge:</b>	Marier
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**Distribution**

Distribution BU FIR	<input checked="" type="checkbox"/> Celebi Guenay (ST-FIR/QMM), Knauel Thomas (ST-FIR/MKP ST-FIR/MKT), Heckl Michael (ST-FIR/MKP3), Kriegbaum Kurt (ST-FIR/QMM) <input checked="" type="checkbox"/> Angstenberger Josef (ST-FIR/MKR-EU) <input checked="" type="checkbox"/> Lim Yong Gang (ST/SRM-AP), Leonard Hew (ST-FIR/MKR-AP), Quek Daniel (ST-CO/MKR2-AP) <input checked="" type="checkbox"/> Squarize Alex (ST/SRM-LA), Pinto Erik (ST/STS-LA ST-ASA/SRA-LA), Gundlach Daniel (ST/SRM-NA ST/SBV1-NA) <input type="checkbox"/>
Distribution BU IN	<input type="checkbox"/> Hossmann Daniela (ST-IN/MKR-EU), Kugler Gerhard (ST-IN/MKR2-EU), Endres Dirk (ST-IN/QMM) <input type="checkbox"/> Berberian Alexandra (ST-IN/MKR-SEF), Ferrao Eduardo (ST-IN/MKR-SEI), Karlsson Mathias (ST-IN/MKR-SEN), Tantry Ananth (ST-IN/MKR-SEM) <input type="checkbox"/> Mechler Tom (ST-IN/MKR-NA) <input type="checkbox"/>
Distribution BU ESS	<input type="checkbox"/> Loh Leon (ST-ESS/MKP1.4), Maier Holger (ST-ESS/MKP1.2), Wings Maarten (ST-ESS/MKP1.3), Redeker Bernd (ST-ESS/QMM), Jan von Rosenstiel (ST-ESS/MKP1.1), Reinhard Bloss (ST-ESS/MKP1) <input type="checkbox"/> Funke Thomas (ST-ESS/ENG) <input type="checkbox"/> Nikolas Mangold-Takao (ST-ESS/MKP1), Jaco Liebetrau (ST-ESS/MKT) <input type="checkbox"/> Markus Brack (ST-ESS/MKP2.3), Huse Istvan (ST/PRM2-EU), Law Jeffrey (ST/PRM1-AP) <input type="checkbox"/> Gary Deng (ST-PRM-CN), James Judson (ST-IN/MKR-NA) <input type="checkbox"/>
Other parties affected	<input checked="" type="checkbox"/> Steidle Kurt (ST-ASA/PRM1) <input checked="" type="checkbox"/> Proyer Konrad (ST-ASA/SRA-EU), Schrimpf Felix (ST-ASA/PRM), Wilson Jim (ST-ASA/SRA-AM), Tan Woo Khiang (ST/ASA-AP) <input type="checkbox"/> Pedolzky Georg (ST-BT/PRM1) <input type="checkbox"/> <input type="checkbox"/>