Temperature threshold setting for rate-of-rise alarm determination

Technical Service Note — October 17, 2016

Effects the following products

— RFSM-A

1 | Issue

RFSM-A detectors manufactured between October 2015 and September 2016 include a heat detection setting that makes the detector slightly more sensitive to temperature rate-of-rise than listed in the product specifications. Per specifications, the beginning detection temperature for rate-of-rise should be 105° F. However, these detectors begin sensing at 85° F instead of the published specification, per *Table 1.1*. This difference in specification might result in an unwanted alarm notification in installation environments where extremely fast temperature rate-of-rise occurs (for example, opening a door to high heat when the detector is close to the door and in a cool environment).

The RFSM-A otherwise works as expected.

	Rate-of-rise temperature threshold
Affected unit	15° F/min > 85°F (8.3° C/min > 29.4° C)
Published specification	15°F/min > 105° F (8.3°C/min > 40.6° C)

Table 1.1: Thresholds

The issue affects only RFSM-A detectors sold in North and South America with the date codes between 558 and 657.

The following figure shows the date code location on the package label and inside the detector (digits 8 through 10). Date code 654, shown here, is affected.
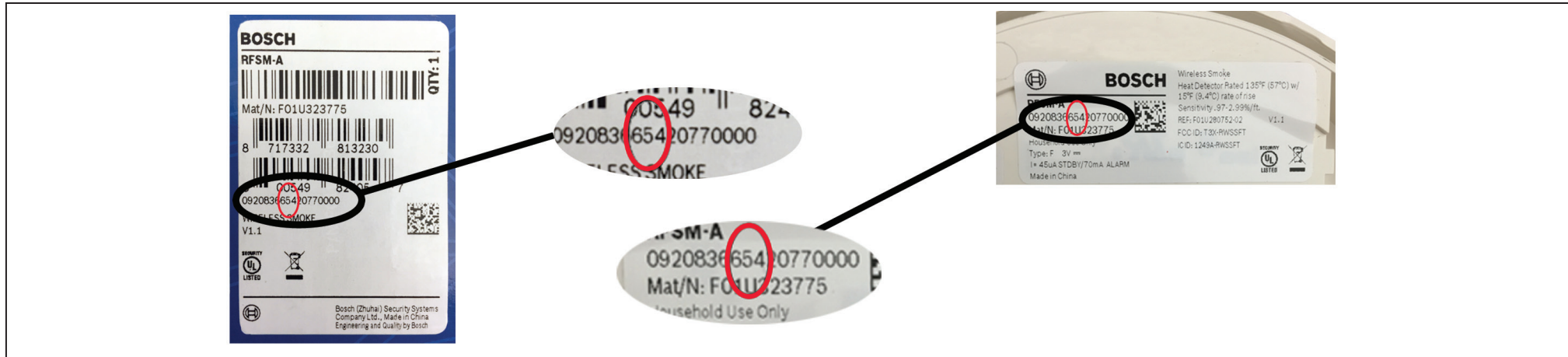

Figure 2.1: Date codes locations

2 | Resolution

There is no action required and previously installed detectors can remain in place. The lower setting for rate-of-rise evaluation simply creates the possibility of an earlier alarm notification or possibly an unwanted alarm in some installation environments. If your RFSM-A detectors have the date code in the range of 558 to 657 and you are concerned that this lower rate-of-rise evaluation threshold of 85°F (versus 105° F) poses a problem, replace those units with Bosch's Advance Exchange process. Call 1-800-289-0096, option 5 or send an email to repair@us.bosch.com to begin the process.

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