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Description: LABEL, QR Code Lighting Controllers Standard Size



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Design

9/19/2017

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Revision History:

Revision	Revised By	Date	Change Description
A000	Bill Curtis	8/11/2015	Initial release
B000	Bill Curtis	9/15/2015	Updated for Leviton specific date code info
C000	Bill Curtis	10/08/2015	Updated for DIM10-100-00 info
D000	Bill Curtis	2/9/2016	Updated Applicable Products table
E000	James Gober	5/17/2016	Corrected DIM10-281-21 part number, added DIM10-283-20, TL5-B1 and AIM-121
F000	Jason Gastler	2/16/2017	Added WSW-02 and WSW-08
G000	Russ Dickerson	6/1/17	Added TL7-B1 and Leviton OCF00-1RN (rebranded TL5-B1) and DIM10-087-00-F
H-0	Russ Dickerson	9/19/17	Added DIM10-087-06 and DIM10-087-06-F

1.0 Overview

This document captures the information that is needed for the QR Code label used in Manufacturing for Lighting Products that can accept a standard size label. These products usually are units that are enclosed inside a housing of some kind. It will be used not only in manufacturing operations but installation/provisioning activities as well.

1.1 References

ISO/IEC 18004:2015	QR Code bar code symbology specification
Document TBD	QR Code Requirements – Synapse Products

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2.0 Label Information

2.1 Label Size

The label format for lighting controller products shall be 1.0" wide by 0.5" high. An example of an acceptable label conforming to this size is Brady part# THT-5-423-10.

2.2 QR Code Size

The QR code size shall be at least 0.40" (square). Larger sizes are preferred.

2.3 QR Code Graphic Format

The QR code graphic format shall conform to the QR Code Model 2 format as defined in the ISO Standard ISO/IEC 18004:2015.

2.4 QR Code Data Format

The QR code data format is defined is as follows:

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	600000	:	1532	:	DIM10-250-11

Where:

Header delimiter -

#

Header field -

01, indicates Synapse lighting controller products

Payload delimiter -

:

Payload field 1 -

600000 is the SNAP Mac address (last 6 characters of the 16 character SNAP Mac address)

Payload field 2 -

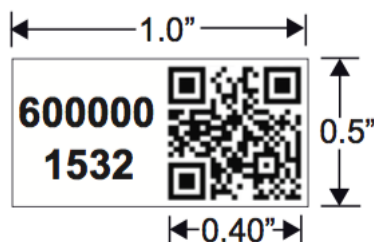
1532 is the manufacturing date code (first two digits are year, second two digits are week)

Payload field 3 -

DIM10-250-11 is the model number of the lighting controller

2.5 QR Code Placement on Label

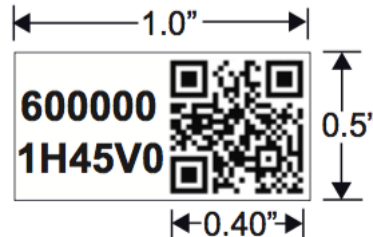
The label shall include the QR code on the right side of the label and the human readable text on the left side of the label. The human readable text shall include the last 6 characters of the SNAP MAC address and the 4-digit date code. An example label (with dimensions) is shown below



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2.6 Leviton Specific Date Code Placement on QR Label

Leviton has specific date code information that is required to be visible. The label shall include the QR code on the right side of the label and the human readable text on the left side of the label. The human readable text shall include the last 6 characters of the SNAP MAC address and a 6 digit date code. An example label (with dimensions) is shown below of a Leviton version:



2.6.1 Leviton specific data code format information:

Leviton has specific data code information that is required for the human readable area of the QR code, and is defined below.

Date Code format is ABCDEF

Where:

- A** - Decade (tens digit of the year)
- B** - Letter of Month, A=January, B=February,
- C** - Week of Month (1,2,3,4,5)
- D** - Year (ones digit of the year)
- E** - Always will be V, denotes Vendor (which is Synapse)
- F** - Production Line, 0=Synapse, 1=Honortone (others added at a later date)

An example of the complete date code format on the QR Code label for Leviton products is captured above and is listed below (using Aug 29, 2015):

1H45V0

Where:

- A** - 1 (year 2015, 10 digit is the decade)
- B** - H (August)
- C** - 4 (29th is in the 4th week)
- D** - 5 (year 2015, one digit of the year)
- E** - V (Vendor)
- F** - 0 (Synapse)

3.0 Applicable Products

As of the date of this document, the following products are applicable to this document contents. The QR Code content string is provided with the exception of the MAC Address and the Date Code (denoted by "TBD" as these will not be known until point of manufacturing.

1) Synapse DIM10-087-00

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	DIM10-087-00

2) Synapse DIM10-087-00-F

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	DIM10-087-00-F

3) Ephesus DIM10-087-04

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	DIM10-087-04

4) Synapse DIM10-100-00

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	DIM10-100-00

5) Synapse DIM10-250-11

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	DIM10-250-11

6) Synapse DIM10-281-21

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	DIM10-281-21

7) Synapse DIM10-283-20

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	DIM10-283-20

8) Synapse AIM-121

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	AIM-121

9) Synapse TL5-B1

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	TL5-B1

10) Synapse TL7-B1

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	TL7-B1

11) Synapse LP150-001

NOTE: Payload Field #3 is identified below as an LP150-00. This is NOT a typo but is the expected information by SimplySNAP and the Installation app.

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	LP150-00

12) Leviton OCF01-000-10T

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	OCF01-10T

13) Leviton OCF01-004-1RT

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	OCF01-1RT

14) Visionaire LP250V

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	LP250V

15) Synapse WSW-02

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	WSW-02

16) Synapse WSW-08

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	WSW-08

17) Leviton OCF00-1RN

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	OCF00-1RN

18) DIM10-087-06

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	DIM10-087-06

19) DIM10-087-06-F

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	DIM10-087-06-F

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