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Description: LABEL, Supplementary QR Code for Lighting Controllers



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Revision History:

Revision	Revised By	Date	Change Description
A000	James Gober	1/28/2016	Draft
A000	James Gober	2/09/16	Initial release
B000	James Gober	5/17/16	Corrected DIM10-281-21 part number, added DIM10-283-20, TL5-B1 and AIM-121
C000	Jason Gastler	2/16/17	Added WSW-02, WSW-08
D000	Russ Dickerson	6/1/17	Added TL7-B1 and Leviton OCF00-1RN (rebranded TL5) and DIM10-087-00-F
E-0	Russ Dickerson	9/19/17	Added DIM10-087-06 and DIM10-087-06-F Specified 801-000012-000 instead of "Document TBD"
F-0	Esther Naholowaa	5/1/18	Added DIM10-087-06-A, TL7-G1-HV, TL7-G1-HV-U and TL7-G1-LV
G-0	Esther Naholowaa	7/9/18	Remove TL7-G1-HV, TL7-G1-HV-U and TL7-G1-LV and add TL7-B2

1.0 Overview

This document captures the information that is needed for the supplementary QR Code labels used in Manufacturing for Wireless Lighting Controllers that provide On / Off / Dim control to Luminaires. These labels are not attached to the controller but are to be included separately in the packaging carton along with the controller and other documentation. These labels will be used by the end customer for installation and provisioning activities.

1.1 References

ISO/IEC 18004:2015	QR Code bar code symbology specification
801-000012-000	Synapse QR Code Format Standard

2.0 Label Information

2.1 Label Type and Size

The label material type shall be a thermal transfer polyester label with a matte finish. The label adhesive shall be a permanent rubber-based adhesive that is designed for high adhesion to textured metals and low surface energy plastics. The label size shall be 2.0” wide by 1.0” high. An example of an acceptable label conforming to this size and type is Brady part# THT-17-489-3.

2.2 QR Code Size

The QR code size shall be between 0.60” and 0.90” on a side (square).

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 -** This is a 6 character alphanumeric field that represents the SNAP Mac address (last 6 characters of the 16 character SNAP Mac address, 600000 shown as an example)
- Payload field 2 -** This is a 4 character numeric field that represents the manufacturing date code (first two digits are year, second two digits are week, 1532 is shown as an example)
- Payload field 3 -** This is a variable length alphanumeric field that represents the model number of the lighting controller, DIM10-250-11 is shown as an example

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, the 4-digit date code and the controller type. The human readable text shall use a font and font size that maximizes the readability of the text in the available space for text. An example label is shown below:

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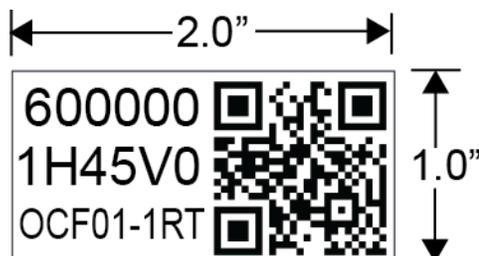
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2.6 Leviton Specific Date Code Placement on QR Label

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, a 6 digit date code and the controller type. An example label 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) Synapse 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) Synapse 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

20) Synapse DIM10-087-06-A

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

21) Synapse TL7-B2

Header Delimiter	Header Field	Payload Delimiter	Payload Field #1	Payload Delimiter	Payload Field #2	Payload Delimiter	Payload Field #3
#	01	:	TBD	:	TBD	:	TL7-B2