synapse®

LABEL, QR Code - Lighting Controllers Mini Size	
9/26/2017	*Document Number 770-100720-100*
	Revision: D-0

Revision History:

Revision	Revised By	Date	Change Description
A000	Bill Curtis	8/13/2015	Initial release
B000	Bill Curtis	11/19/2015	Addition of DIM10-087-04
C000	Bill Curtis	2/9/2016	Updated Applicable Products table
D-0	Russ Dickerson	9/26/2017	Added DIM10-087-06 and DIM10-087-06F. Added DIM10-087-00-F. Added Device Identification/Product Name requirement to be placed along the right side edge. Specified 801-000012-000 instead of "Document TBD"

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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 mini size label. These products usually are units that are not 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

801-000012-000   Synapse QR Code Format Standard

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2.0 Label Information

2.1 Label Size

The label format for lighting controller products shall be 0.75" wide by 0.75" high. An example of an acceptable label conforming to this size is Brady part# THT-50-423-10.

2.2 QR Code Size

The QR code size shall be 0.450" (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 -	01, indicates Synapse lighting controller products
Payload delimiter -	:
Payload field 1 -	Last 6 digits of the SNAP Mac Address
Payload delimiter -	:
Payload field 2 -	Manufacturing Date
Payload delimiter -	:
Payload field 3 -	Model Number

An example of the string read from this QR code format for a Synapse single-channel relay controller with would look like:
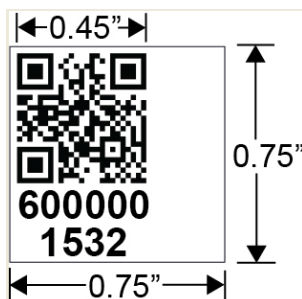
<p align="center">#01:600000:1532:DIM10-087-00</p>

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 delimiter -	:
Payload field 2 -	1532 is the manufacturing date code (first two digits are year, second two digits are week)
Payload delimiter -	:
Payload field 3 -	DIM10-087-00 is the model number of the lighting controller

2.5 QR Code Placement on Label

The label shall include the QR code on the upper left corner 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. The Device Identification/Product Name will be printed along the right edge. An example label (with dimensions) is shown below:

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 DIM10-087-06

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

5)   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