

MD-SIG

NFC programming specification

Equipment for luminaire manufacturers

1.0

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1 NFC programming

1.1 Introduction

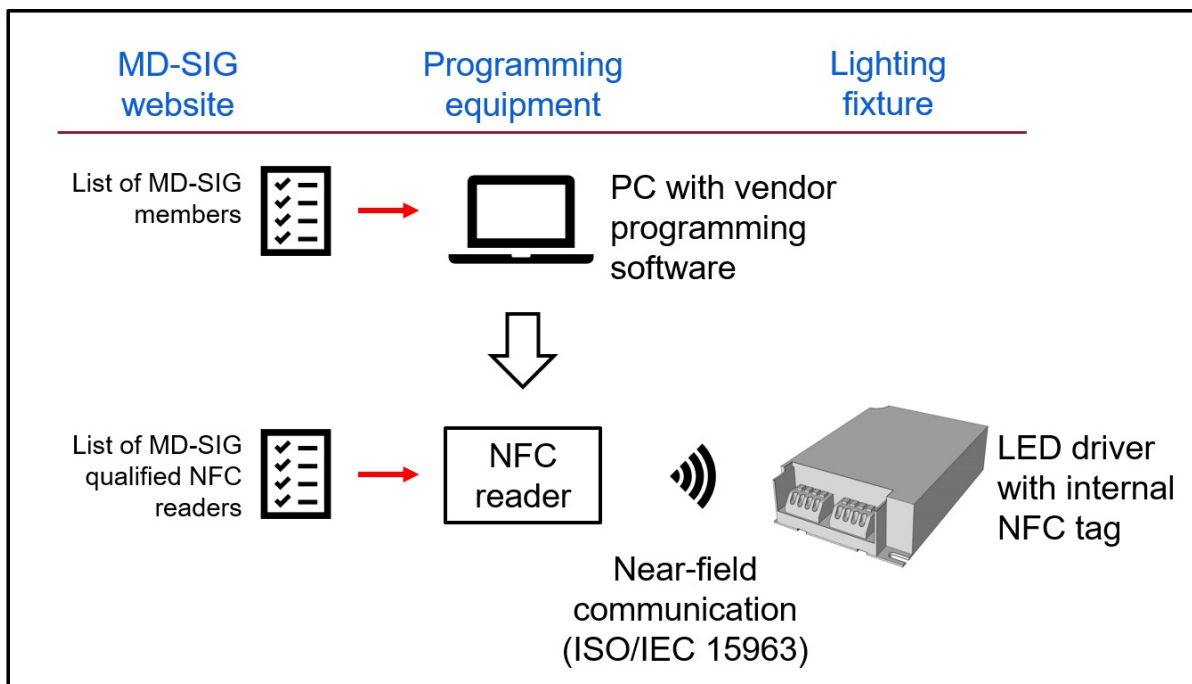
Manufacturers of LED luminaires currently use a variety of programming methods to set the operating characteristics of LED drivers inside luminaires. Simplified and harmonized methods are desired to enable LED driver programming on automated or manual production lines.

MD-SIG specifies a digital, wireless programming approach using near-field communication (NFC). NFC allows the manufacturer to wirelessly set the LED driver operating parameters, such as operating current, constant lumen output and dimming levels. This can be done on a manufacturing line without the need to apply mains voltage to the driver.

The NFC system uses a programming device, commonly known as an NFC reader, which wirelessly transfers the programming data to an NFC tag inside the LED driver. The parameters are programmed using a standardized NFC reader in combination with software that is specific to the LED driver vendor.

This document lists the qualified NFC readers luminaire manufacturers shall use for programming LED drivers with an internal NFC tag.

Implementation details about programming software and verification methods are specified in a secondary document. This document is available to MD-SIG members only.



1.2 Qualified NFC readers

The following NFC readers are qualified by MD-SIG:

1.2.1 FEIG - ID CPR30-USB



- Brand: FEIG Electronics
- Type: ID CPR30-USB
- Article number: 3600.000.01
- Minimum firmware version: V1.05

1.2.2 FEIG - ID ISC.PRH101-USB



- Brand: FEIG Electronics
- Type: ID ISC.PRH101-USB
- Article number: 1524.001.01
- Minimum firmware version: V2.04

1.2.3 FEIG - ID ISC.MR102-USB



- Brand: FEIG Electronics
- Type: ID ISC.MR102-USB
- Article number: 3605.000.00
- Minimum firmware version: V 2.09

- Qualified antennas:
 - ID ISC.ANT40/30-A Article number: 1967.000.00
 - ID ISC.ANT40/30-U.FL Article number: 3674.000.00
 - ID ISC.ANT100/100-A Article number: 1968.000.00
 - ID ISC.ANT100/100-U.FL Article number: 3637.000.00

- Qualified antenna cables:
 - ID ISC.ANT.C02-U.FL/SMA - U.FL to SMA
Article number: 3621.000.00
 - ID ISC.ANT.BC-A - 1,50m, 2-Pin to SMA
Article number: 3001.000.00