



Environmental Tests on Signal Lights

For	Federal Signal Corporation 2645 Federal Signal Drive University Park, IL 60466
P.O. Number	1399832 - ON
Date Tested	5/20/2019 – 5/21/2019
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Test Specification	ISO 20653

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1. REPORT REVISION HISTORY

Revision	Date	Description
-	May 31, 2019	Initial release



2. INTRODUCTION

This document presents the results of a series of environmental (ENV) tests that were performed on 2 Signal Lights (hereinafter referred to as the Device Under Test (DUT)). The DUTs were identified as follows:

Part Number	Serial Number
Part ID: SLMBP (pipe mount base) w/ SLM100 head	S/N 1
Part ID: SLMBD (deep base) w/ SLM300 head	S/N 1

3. TEST SPECIFICATION

The tests were performed in accordance with ISO 20653.

4. MODIFICATIONS MADE TO DUT AND/OR DEVIATIONS TO SPECIFICATION DURING TESTING

No modifications were made to the DUTs and no deviations from the specification were made during the test.

5. SUMMARY

The following ENV tests were performed and their results are shown below:

Test Description	Specification Section	Test Results	S/N	Date Tested
Pressure Spray IP9K	ISO 20653 Section 6 IP9K	Compliant	1, 1	5/20/2019
Dust IP6K	ISO 20653, IP6K	Compliant	1, 1	5/20/2019 – 5/21/2019

6. OPERATION STATES

The ENV tests were performed with the DUTs operating in one or more of the test modes described below.

6.1. Unpowered

The DUTs were unpowered for the duration of the testing.

7. PERFORMANCE MONITORING

Performance monitoring was not required for this testing.

8. ACCEPTANCE CRITERIA

IP9K Pressure Spray - The DUTs shall satisfactorily withstand exposure to a pressurized stream of water without physical damage or water intrusion.

Dust IP6K - The DUTs shall satisfactorily withstand exposure to dust without physical damage or dust intrusion.

9. TEST METHOD

The tests were performed using the referenced methods described in ISO 20653.

10. CERTIFICATION

Elite Electronic Engineering Incorporated certifies that the information contained in this report was obtained under conditions which meet or exceed those specified in the test specifications. The data presented in this test report pertains to the DUTs at the test date as operated and monitored if required. Any electrical or mechanical modification made to the DUTs subsequent to the specified test date will serve to invalidate the data and void this certification.