

# DFI-100-340F

## Limelight Diagnostic Flame Indicator

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Alstom DFI-100-340F is a Limelight diagnostic flame indicator module for burner-management service. It reports flame or no-flame status and local diagnostic information to support commissioning and fault investigation.

| STEP | GATE     | ENGINEERING PURPOSE                |
|------|----------|------------------------------------|
| 01   | IDENTIFY | Confirm article, host and hardware |
| 02   | ISOLATE  | Secure power and stored energy     |
| 03   | CONNECT  | Restore documented interfaces      |
| 04   | VALIDATE | Prove diagnostics and function     |

### WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact Alstom article.

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DFI-100-340F

# Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

- 1

Confirm DFI-100-340F on the module marking and the assigned burner-management channel.
- 2

Place the fuel train and burner in the approved safe maintenance state.
- 3

Isolate the 24 V DC supply and apply ESD controls before handling the module.
- 4

Record every pluggable-terminal position, polarity, shield and field-circuit identifier.

## Pre-Work Evidence

| EVIDENCE ITEM            | RECORDED VALUE                                                                                  |
|--------------------------|-------------------------------------------------------------------------------------------------|
| Complete article marking | DFI-100-340F                                                                                    |
| Host / carrier           | Alstom Limelight burner-management flame monitoring                                             |
| Primary system role      | Reports flame and no-flame operating states                                                     |
| Acceptance boundary      | Complete controlled flame-present and flame-absent proof tests and verify safe shutdown action. |
| Source record            | ALSTOM Limelight DFI-100-340F Datasheet                                                         |

WORK AUTHORIZATION RECORD

Work order: \_\_\_\_\_

Drawing / revision: \_\_\_\_\_

Checked by: \_\_\_\_\_

Date: \_\_\_\_\_

## Isolation and Access Register

| CONTROL POINT     | ENGINEER RECORD        |
|-------------------|------------------------|
| Incoming supply   | Isolated / proved      |
| Stored energy     | Discharged / proved    |
| Field connections | Identified / protected |
| ESD control       | Established / recorded |

## Pre-Work Documentation

| DOCUMENT              | ENGINEER RECORD      |
|-----------------------|----------------------|
| Connection photograph | Reference / file     |
| Configuration backup  | Reference / revision |
| Diagnostic baseline   | Reference / result   |

# Connection and Installation Sequence

## INSTALLATION PRINCIPLE

Record the DFI-100-340F terminal strip, CANbus connection, power polarity, flame-sensor interface and displayed diagnostic code before removal. Restore the approved 24 V DC supply and burner-management configuration, then verify flame/no-flame response, fault reporting and safe burner shutdown under the controlled commissioning procedure.

- 1 Record the CANbus connection and alpha-numeric diagnostic status before removal.
- 2 Restore the approved burner-management configuration and documented supply range.
- 3 Verify stable power, communication and flame-state diagnostics before enabling fuel.
- 4 Complete controlled flame-present and flame-absent proof tests and verify safe shutdown action.

## Connection Record

| CONNECTION GROUP         | AS-FOUND / AS-LEFT RECORD | STATUS  |
|--------------------------|---------------------------|---------|
| Power / field connection | Reference / terminal      | Checked |
| Signal / interface       | Reference / connector     | Checked |
| Ground / shield          | Reference / point         | Checked |
| Accessory / carrier      | Reference / part          | Checked |

## MODEL-SPECIFIC RELEASE LIMIT

Confirm DFI-100-340F, the assigned Limelight burner-management channel, hardware execution, pluggable terminal strip, 24 V DC polarity, flame-sensor wiring, shields, grounding, CANbus configuration, displayed diagnostic state and controlled flame-failure test before commissioning.

## Interface Acceptance Criteria

| ACCEPTANCE ITEM     | REQUIRED EVIDENCE                                                                    |
|---------------------|--------------------------------------------------------------------------------------|
| Identity            | DFI-100-340F                                                                         |
| Host match          | Alstom Limelight burner-management flame monitoring                                  |
| Connection proof    | Restore the approved burner-management configuration and documented supply range.    |
| Configuration proof | Verify stable power, communication and flame-state diagnostics before enabling fuel. |

# Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

| NO. | ACCEPTANCE CHECK              | RESULT      | RECORD         |
|-----|-------------------------------|-------------|----------------|
| 1   | Article and host identity     | PASS / FAIL | Initial / date |
| 2   | Mechanical installation       | PASS / FAIL | Initial / date |
| 3   | Power and field wiring        | PASS / FAIL | Initial / date |
| 4   | Grounding and shielding       | PASS / FAIL | Initial / date |
| 5   | Configuration restoration     | PASS / FAIL | Initial / date |
| 6   | Signal or power-path response | PASS / FAIL | Initial / date |
| 7   | Diagnostics and alarms        | PASS / FAIL | Initial / date |
| 8   | Final functional release      | PASS / FAIL | Initial / date |

## Engineering Notes

| RECORD AREA             | ENGINEER ENTRY |
|-------------------------|----------------|
| As-found condition      |                |
| Corrective action       |                |
| As-left configuration   |                |
| Outstanding restriction |                |
| Release authorization   |                |

### CONTROLLED COMMISSIONING

Complete controlled flame-present and flame-absent proof tests and verify safe shutdown action.

## Diagnostics and Release Log

| EVENT                        | ENGINEERING RECORD   |
|------------------------------|----------------------|
| Initial energization         | Result / observation |
| Interface or signal response | Result / observation |
| Alarm and diagnostic review  | Result / observation |
| Functional release           | Name / date          |

### ACCEPTANCE AND RELEASE EVIDENCE

#### Burner flame supervision

Provides the documented flame-state indication used by the burner-management sequence.

#### Boiler light-off verification

Supports controlled confirmation of flame recognition during ignition testing.

#### Flame-circuit diagnostics

Uses the local status display and communication record to investigate abnormal response.

#### Module replacement validation

Reproduces the recorded terminal, supply and CANbus arrangement before a proof test.

# Maintenance Verification and Closeout

## Burner flame supervision

Provides the documented flame-state indication used by the burner-management sequence.

## Boiler light-off verification

Supports controlled confirmation of flame recognition during ignition testing.

## Flame-circuit diagnostics

Uses the local status display and communication record to investigate abnormal response.

## Module replacement validation

Reproduces the recorded terminal, supply and CANbus arrangement before a proof test.

## Related Engineering Pages

| MODEL     | ENGINEERING ROLE              | APTER POWER PAGE                    |
|-----------|-------------------------------|-------------------------------------|
| 8961-4001 | control module                | <a href="#">View 8961-4001 page</a> |
| TTM211    | IP166 logic analogue I/O card | <a href="#">View TTM211 page</a>    |
| EPICIII   | EP3-E-4-A control module      | <a href="#">View EPICIII page</a>   |
| 8933-0000 | PCB display module            | <a href="#">View 8933-0000 page</a> |
| 8263-4154 | control-system module         | <a href="#">View 8263-4154 page</a> |
| MMLG02    | test-block module             | <a href="#">View MMLG02 page</a>    |
| MMLB01    | test-plug relay               | <a href="#">View MMLB01 page</a>    |
| LD106     | controller module             | <a href="#">View LD106 page</a>     |

## MANUFACTURER SOURCE RECORD

ALSTOM Limelight DFI-100-340F Datasheet  
User-authorized exact-model source file

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