

Certificate No. S 02-1511-181

Approval date 28/04/2016
Approved by GM Technical Standards
Report no. TAS 02-1510-UGL177
Report date 10/09/2015

This certificate is issued to

Supplier UGL Limited
 373 Horsley Road, Milperra
 NSW, Australia 2214

In respect of

Manufacturer UGL Limited
Product description UGL Limited FL-03 LED Signal
Item identification Refer to Approved Item list for full details:
 1. UGL 12 VDC with and without white sidelight (nominal 0.6A)
 2. UGL 12 VDC with and without white sidelight (nominal 1.0A)
Application ARTC Network Wide
Relevant Standards SPS 02 Environmental Conditions
 SPS 05 Electrical & Electronic Components (Ratings & Construction Requirements)
 SPS 11 Light Signals
 ESC-03-01 Level Crossing Equipment

Conditions of Approval

1. For use in accordance with ARTC specification ESC-03-01 Level Crossing Equipment.
2. Only equipment from Approved Item list may be utilised for Level Crossing applications.
3. Production from UGL should ensure that each batch is within the current consumption range as specified in the Approved Item list.
4. Appropriate signage/ plate required to show current consumption batch and equipment details.
5. All FL-03 LED signals at a site shall have a maximum current consumption range of not more than 200mA between the highest and lowest readings.

6. LED module test certificates are to be retained/ stored by the manufacturer/ supplier for a period of not less than seven (7) years, and made available upon request.

A general condition of approval is that the supplier remains accredited to ISO 9001 specifically for these products and ARTC is advised on a 12 monthly basis that accreditation is current. ARTC reserves the right to conduct its own audit of the manufacture and supply of these components to AS 19011.

Any subsequent change to the design, materials or manufacturing process is not covered by this approval. The manufacturer should notify ARTC of any modification or changes in order to obtain a valid updated certificate.

Note/Comments NIL.

Issue date

Expiry date

Issued by

John Furness 
ARTC Manager Standards

Approved Item List

| UGL Catalogue No. | Approved Version | Catalogue No. (Legacy) | Item Description | Aspect (mm) | Nominal Voltage/Current | Current Consumption Range | Intensity Range | Product Version Description | Conditions of Use |
|--|------------------|------------------------|---|-------------|-------------------------|---------------------------|-----------------|-----------------------------|--|
| FL-03 Level Crossing LED Signal | | | | | | | | | |
| 1000451826 | 8.X | 1000010307 Rev 7C | FL-03 (RED) LED Signal (Low Current Version) | 212 | 12 VDC 0.6A | 0.40A - 0.80A | 450 - 1200Cd | 04_25_07_01 Rev 2.1 | Suitable for use with or without sidelights. |
| 1000010307 | 8.X | 1000009848 | FL-03 (RED) LED Signal (High Current Version) | 212 | 12 VDC 1.0A | 0.80A - 1.2A | 450 - 1200Cd | 04_25_07_01 Rev 2.1 | |

