

# RELIANCE

## Individual Light Control and Monitoring System Platform III



Remote

### Compliance with Standards (current Version)

**European standards** DIN EN 62870 (VDE) 0161-105-SELV-2016-06 (for SRU 111 and SRU 112 only)

CE

### Uses

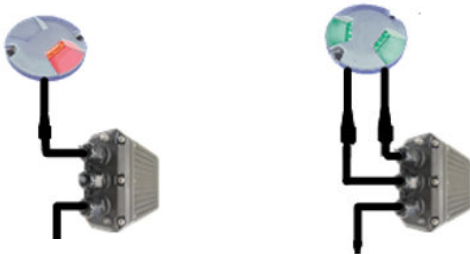
The ADB SAFEGATE RELIANCE™ Intelligent Lighting (IL) SRU (formerly called "SCROLL Remote Unit") is a component of the RELIANCE Intelligent Lighting Individual Light Control and Monitoring System that ensures the communication of the regulator with the individual lights or light segments.

### Design

The RELIANCE Intelligent Lighting SRU is available in two basic design variants, i. e. with one

(SRU 101 or SRU 111) or two channels (SRU 102 or SRU 112):

RELIANCE Intelligent Lighting SRU — variant with one channel      RELIANCE Intelligent Lighting SRU — variant with two channels



The SRU types with one output is designed for unidirectional lights and the SRU types with two outputs for bidirectional lights. The additional cable is the input from the secondary transformer.

### Features and Benefits

- Remote units configurable via CU or RFID (with lucDMC)
- SRU type 111 and 112 as part of a SELV system limit no-load voltage at the output to < 50 V RMS
- Parameterizing via RFID without cabling or power supply

### Operating Conditions

**Environment / Operating temperature range** -40 °C to +65 °C / -40 °F to +149 °F

**Storage and transport temperature** -55 °C to +85 °C / -67 °F to +185 °F

**Environment pressure** below 3000 meters

### Power Specifications

- SRU 101: 315W@CF2 (single-channel)
- SRU 102: 315W@CF2 (dual-channel)
- SRU 111: 190W@CF2 (single-channel)
- SRU 112: 95W@CF2 (dual-channel)

#### Max. output

**Note:** CF = Crest Factor

**Power storage after power-off** Memory remains for 1 sec.

**Min. series circuit current**  $I_{min}$  2.8 A

**Max. series circuit current**  $I_{max}$  6.6 A / 50 Hz

**Max. power loss**  $P_D$  9.8 W (WigWag - RGL lights) , 4 to 5 Watt without WigWag

**Insulation voltage**  $U_{ins}$  5 kV

**Test voltage**  $U_{inst}$  10 kV

### Protection Details

Protection details	Values
Enclosure protection class	IP 68 / NEMA 6 P
Lighting protection according to DIN EN / IEC 61000	20 kA (8 / 20 micro sec.)

# RELIANCE

## Dimensions

<b>Length × width × depth</b>	Approx. 270 (with cables) × 140 80 mm 10.6 x 5.5 x 3.15 in
<b>Weight without packaging</b>	Approx. 1.6 kg 3.8 lb
<b>Weight with packaging (in cardboard box)</b>	Approx. 1.9 kg 4.3 lb

## Optional RELIANCE Intelligent Lighting SRU with Voltage Limiter for DIN 62870 Systems

The RELIANCE Intelligent Lighting SRU type 111 and 112 is equipped with an optional voltage limiter according to support your DIN EN 62870 system.

## Ordering Code

### Note:

- A-codes: The A-codes are referring to SRU remotes that are not parameterized by ADB SAFEGATE before delivery. They can be ordered as a reserve and be parameterized later on by the airport staff. They are intended for example for commissioning in projects planned in the future or as spare parts.
- P-codes: If a SRU with P-code is ordered, a product with A-code is parameterized for its specific location on the airport and delivered to the customer. Parameterized means that this remote was programmed for a special location (light) with the address code of this light and only works at its intended place. The P-code products are used in system projects in which these remotes are planned before ordering.

Product name	Description	Ordering Codes <sup>1</sup>
SRU 101	Remote (single-channel) with one output and up to 315W@CF2 of power, for unidirectional light	P1174 (parameterized) A4639 (not parameterized)
SRU 102	Remote (dual-channel) with two outputs and up to 315W@CF2 per output, for bidirectional lights	P1254 (parameterized) A4640 (not parameterized)
SRU 111	<ul style="list-style-type: none"> <li>• Remote (single-channel) with one output including a voltage limiter to &lt; 50 VAC (to be part of a DIN EN 62870 system), for unidirectional light</li> <li>• With implemented self-test feature to be used as additional safety check and maintenance support tool, max. output power 190W@CF2</li> </ul>	P1255 (parameterized) A4560 (not parameterized)
SRU 112	<ul style="list-style-type: none"> <li>• Remote (dual-channel) with two outputs including a voltage limiter to &lt; 50VAC (to be part of a DIN EN 62870 system), for bidirectional lights</li> <li>• With implemented self-test feature to be used as additional safety check and maintenance support tool, max. output power 95W@CF2 / channel</li> </ul>	P1306 (parameterized) A4641 (not parameterized)

**Note: CF = Crest Factor**

### Notes

- <sup>1</sup> Refer to the note on A- and P-codes and read it carefully before ordering remotes.

## Packaging Information

	Dimensions	Gross Weight
Length x width x depth	Approx. 390 x 255 x 95 mm /	Approx. 0.3 kg /
	15.4 x 10 x 3.7 in	0.7 lb

## Features

Feature	Value / operation	Description
<b>Mains failure bypass</b>	Last lamp state is stored for at least 1 s in the remote	Defines how long last state is preserved
<b>Lightning protection</b>	Installed	
<b>Self- test</b>	Can be executed via RFID reader and lucDMC	Tool for additional safety check and maintenance support
<b>Voltage limitation for DIN EN 62870 systems</b>	Implemented in SRU 111 and SRU 112	Limits no-load voltage in case of lamp failure
<b>Parameterizable state after turning-on</b>		
<b>Lamp failure detection</b>	Two programmable thresholds	Peak voltage monitoring and RMS voltage monitoring
<b>Short-circuit monitoring</b>		Applicable
<b>Fail-safe mode</b>	Parameterizable to on or off	
<b>Interruption monitoring</b>		Parameterizable

*We reserve the right to further develop the products, make technical changes and change our specifications and designs at any time without previous notification. Characteristics and features of the products may differ from given information. Therefore performance can be different from the one specified, especially if you do not follow the intended use or fail to comply with our instructions.*

*The specifications and descriptions in this data sheet are valid for products delivered from 05/01/2020. For further information to this data sheet please the ADB SAFEGATE sales team.*