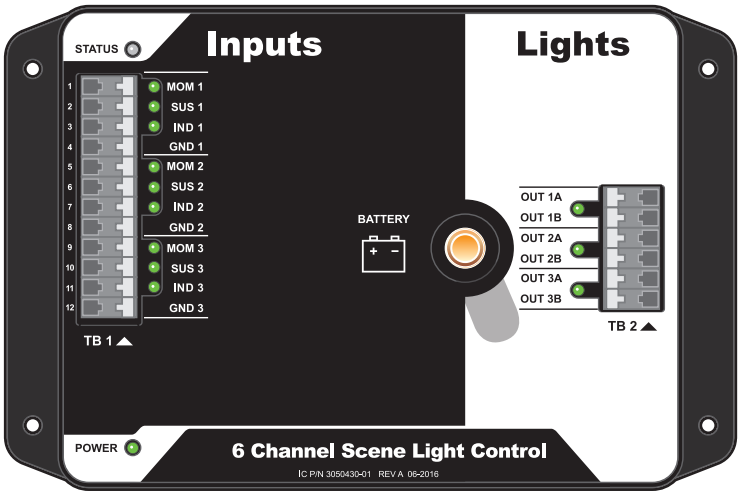
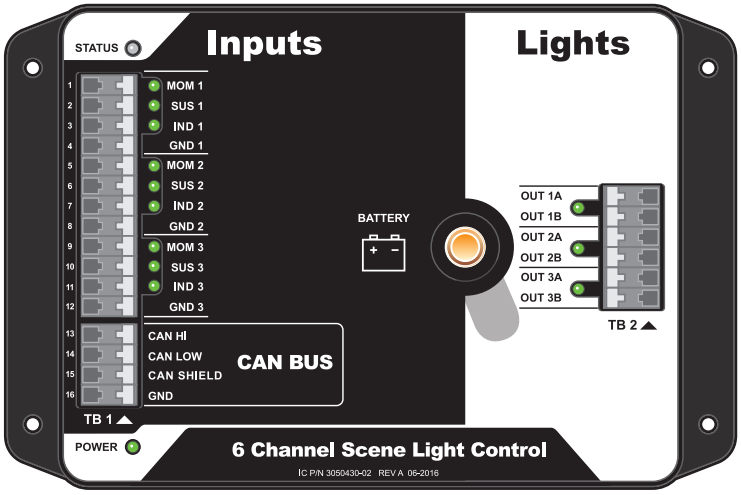
6 Channel Scene Light Controller 3050430



IC P/N 3050430-01

FEATURES

- **Three channels with two 24A outputs per channel**
- **Hardwired or J1939 CAN Bus Controls and Indicators**
- **Three-way Switching Inputs with Selectable Input Polarity**
- **High-Side Sustained Control Switch Inputs**
- **Front Panel Input and Output Status Indicators**
- **-40C to +105C (-40F to +220F) AEC-Q100 Level 2 Operating Temperature**
- **No Configuration Jumpers**
- **Potted Module for Dust and Water Ingress Protection**



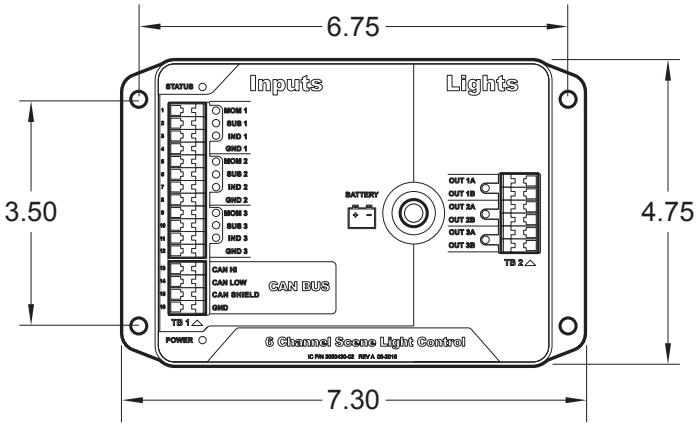
IC P/N 3050430-02 with CAN BUS

RELIABLE LIGHTING SYSTEM CONTROL

OFFERING EASY INSTALLATION AT A LOWER COST

Innovative Controls Inc. 6 Channel Scene Light Control Modules are used to operate LED, halogen, or incandescent light panels. Scene lights can be operated using hardwired switches or with CAN Bus network-enabled switchbanks. The Scene Light Controls have inputs for standard and three way switching, separated into three channels - typically used for the left, right, and rear sides of the vehicle. Each channel has two independent relay outputs rated for 25A DC continuous duty. The system power input connection is made using a ¼" brass stud. The lighting circuit wiring is connected to the Scene Light Controls via lever action cage-clamp connectors that simplify wiring and reduce installation time.

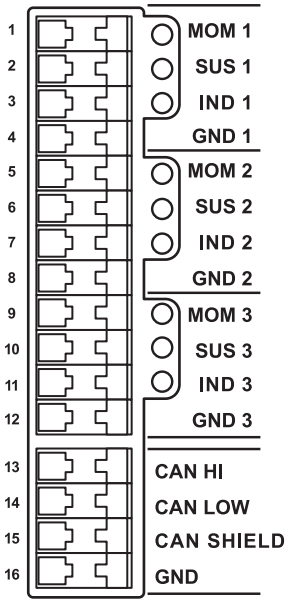
Multiple scene light controllers can be hardwired or networked together using CAN protocol and controlled remotely from the cab. Innovative Controls can provide ready to install, out of the box scene light control solutions by mating the scene lighting control with our exterior switch bank modules, cab switch banks, and I/O multiplexers. Innovative Controls Scene Lighting Controls allow fire apparatus builders to offer custom lighting system controls while reducing design, labor, and installation time.



TECHNICAL SPECIFICATIONS

Operating Voltage	7 to 32 VDC
Power Consumption with no loads at 13.8 VDC	45 mA
Output Channel Current	25A DC continuous
Operating Temperature Range	-40°C to +105°C (-40°F to +220°F)
Storage Temperature Range	-40°C to +105°C (-40°F to +220°F)
Ingress Protection	IP67
Electrical Protection	Reverse voltage polarity protection on all connections Internal thermal fuses CAN Bus protected to 24V ESD protected to J1113-13 specifications Transient voltage protected to J1113-11 and J1113-42 Indicator outputs are protected from reverse polarity, over-current, over-voltage, and voltage transients Input circuits are protected from reverse polarity, over-current, over-voltage, and voltage transients Watchdog timer supervises proper execution of software
SAE J1939 Protocol	CAN 2.0B port operating at 250kbps, J1939-11 or J1939-15 physical layer Control commands received from PGN 65482 (0xFFCA) Status sent by PGN 65472-65476 (0xFFC0-0xFFC4) source address dependent Source address range 194-199 (0xC2-0xC7)
Indicator Output Current Max	High side polarity 800mA
Dimensions	6.13" wide x 4.62" high x 1.25" deep
Weight	544 grams (1.2 pounds)

ELECTRICAL CONNECTIONS



Terminal	Name	Decription
1	MOM 1	Channel 1 three-way switching momentary input. Active low default.
2	SUS 1	Channel 1 sustained switch input. Active high default.
3	IND 1	Channel 1 status indicator output. Active high output with 800mA max load current.
4	GND 1	System ground
5	MOM 2	Channel 2 three-way switching momentary input. Active low default.
6	SUS 2	Channel 2 sustained switch input. Active high default.
7	IND 2	Channel 2 status indicator output. Active high output with 800mA max load current.
8	GND 2	System ground
9	MOM 3	Channel 3 three-way switching momentary input. Active low default.
10	SUS 3	Channel 3 sustained switch input. Active high default.
11	IND 3	Channel 3 status indicator output. Active high output with 800mA max load current.
12	GND 3	System ground
13 (1)	CAN HI	J1939 Can Bus High
14 (1)	CAN LOW	J1939 Can Bus Low
15 (1)	CAN SHIELD	CAN cable shield for J1939-11 network requirements
16 (1)	GND	System ground

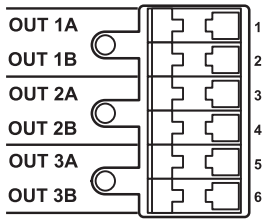
(1) Only available on part number 3050430-02 Scene Light Control with CAN Bus option

Wago 256-416 Terminal Strips with Push-Button Actuated Cage-Clamps

Connectors are compatible 12-28AWG solid or stranded wire

1/4" Battery Stud: System DC power input from vehicle battery. Power source must be protected with adequately rated Over-Current Protection Device

Terminal	Decription
OUT 1A	Scene Light Output Channel 1A
OUT 1B	Scene Light Output Channel 1B
OUT 2A	Scene Light Output Channel 2A
OUT 2B	Scene Light Output Channel 2B
OUT 3A	Scene Light Output Channel 3A
OUT 3B	Scene Light Output Channel 3B



Each channels A and B outputs are activated together

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