



Description

This is UL924-certified Emergency Lighting Bypass/Shunt Relay. We specifically designed this component to ensure the reliable operation of emergency lighting systems. It is also an essential component of safety and compliance in emergency situations thanks to its robust capacity and compatibility with multiple power sources.

Model Number	DLCS-ESRN-001
Operating Voltage	100-277vac
Load Ratings	1a
Dimming Compatibility	0-10v / DALI
Operating Temps	-25c to +60c
Mounting	OEM
Warranty	5 Year

Key Features

Product description

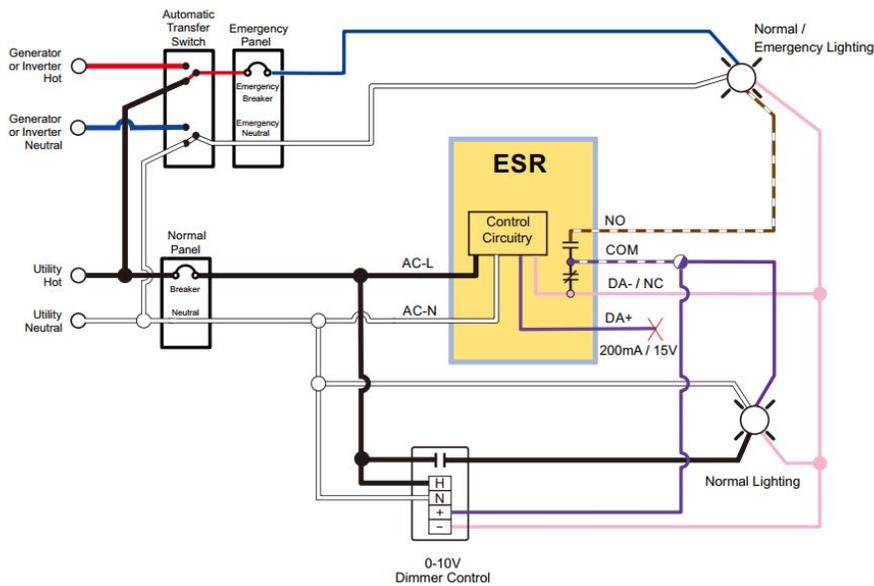
- Emergency lighting load control relays.
- Conforms To UL STD 924.
- Operating Voltage: 100 Vac to 277Vac / 140Vdc to 390Vdc.
- Operating Temperature: -25°C to +70°C.
- Built-in DALI PSU, 15V / 200mA .

Signal Relay Specification

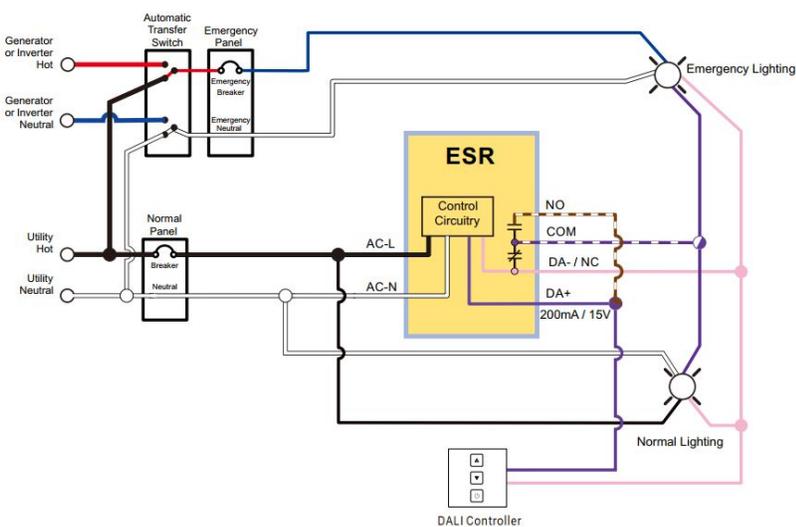
- One (1) SPDT Continuous Duty Coil.
- 1 Million Cycles Minimum Mechanical Lifetime.
- Operate Time: 3mS.
- Maximum Switching Load Voltage: 250Vac / 30Vdc.
- Maximum Switching Load Current: 1A.



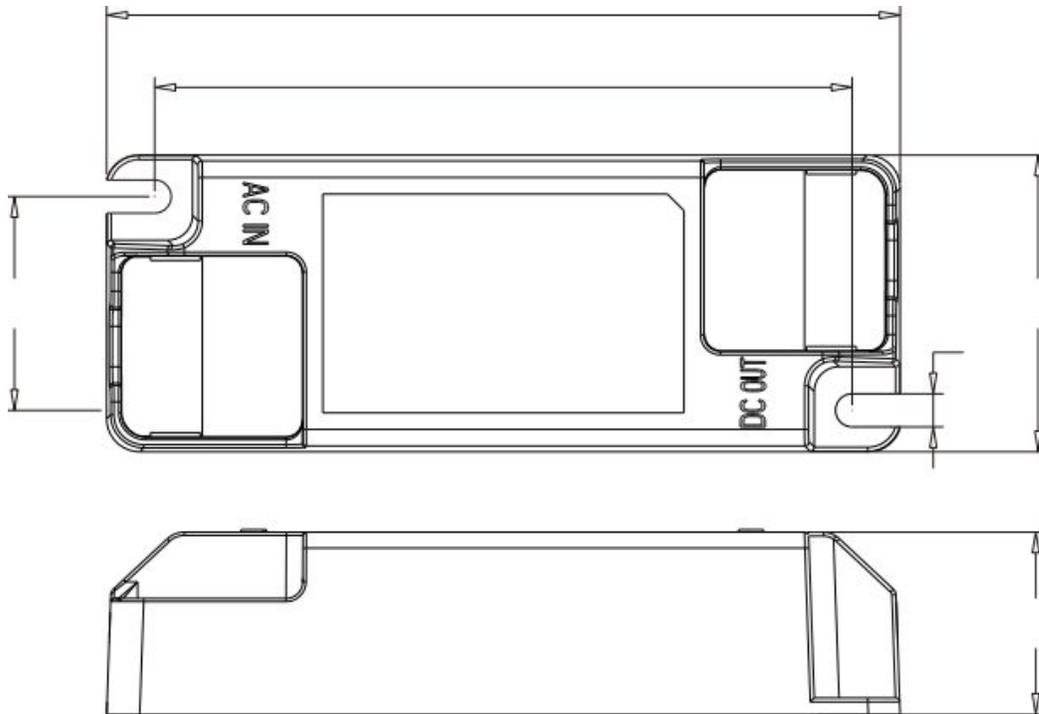
Wiring Diagram with 0-10v



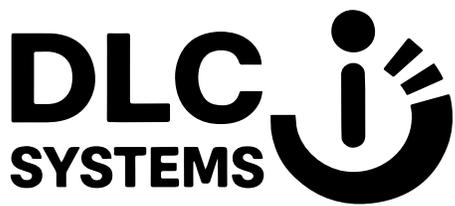
Wiring Diagram with Dali



Dimensions



	inch	mm
Case Length	3.78"	96
Case Width	1.42"	36
Case Height	0.87"	22
Mounting Length	3.31"	84
Mounting Width	1.024"	26
Weight	0.104lb / 47g	



DLCS-ESRN-001

Input Current 0.1A max.

Input Frequency 50 / 60Hz

Min. Mains Voltage Operational 85Vac / 100Vdc

Max. Mains Voltage Operational 300Vac / 420Vdc

Start Time $\leq 0.5S$

Inrush Current Cold start $\leq 45A @ 277Vac$
(twidth = 50us measured at 10% Ipeak) @ 347Vac, Per NEMA 410

DALI Output Voltage Range 14Vdc to 17Vdc

DALI Max. Output Voltage 17Vdc Max.

DALI Typ. Output Voltage 15Vdc

DALI Min. Output Voltage 14Vdc

DALI Guaranteed Output Current 55mA / 200mA

DALI Guaranteed Output Current 62mA / 210mA

DALI Max. Output Power 4W

DALI Output Voltage Ripple $\leq 5\%$ @ guaranteed output current

Protection Rating IP24

Ambient Temp Range $-20^{\circ}C$ to $+70^{\circ}C$

Max. Case Temperature[Tcase] $85^{\circ}C$ (please refer to Tc point location)

Operating Condition Damp and dry

Safety Standards UL 924: 2016 Ed.10+R: 01 May 2018, CSA C22.2 # 141: 2015 Ed.5
IEC 61347-1, IEC 61347-2-13

EMC Emission Compliance to FCC Part 15, CAN ICES-005, IEC 55015

EMC Immunity Compliance to IEC 61000-4-2,6, IEC 61547

Audible Noise $< 24dB$ Class A