

Type(s)

Project

Date

Notes

GENERAL INFORMATION

Designed for use with ArcSystem Pro One-Cell series luminaires, the ArcSystem driver range is a convection cooled LED driver providing superior quality dimming. Each driver type has been specifically optimized for the best possible control of its intended luminaire. With this in mind, the following chart details compatibility of each model:

DRIVER	SUITABLE FOR USE WITH:
D1 Driver	Pro One-Cell / Pro One-Cell Small
D1HO Driver	Pro One-Cell High-Output
D2 Driver	Pro One-Cell Micro
D4 CC Driver	Pro One-Cell / Pro One-Cell Small

Each D1 Driver provides power and control for one luminaire while the D2 can power up to two Pro One-Cell Micro luminaires. The D4 CC Driver provides power and control for up to four luminaires. Intensity may be controlled directly using a DMX/RDM connection to the driver's RJ45 connectors.

GENERAL INFORMATION

APPLICATIONS

- Auditoriums
- Worklights
- Lobbies
- Houses of worship
- Museums
- Studios

FEATURES

- Wired DMX/RDM
- Stepless smooth dimming to absolute zero
- Silent operation
- Convection cooled
- Suitable for air handling/plenum use

ORDERING INFORMATION

ArcSystem Drivers

PRODUCT	MODEL	CONTROL	DRIVER CONSTRUCTION	REGULATORY
ARCP - ArcSystem Pro ARCE - ArcSystem Pro Emergency	D1D - D1 Driver D1HD - D1HO Driver D2D - D2 Driver D4D - D4 Driver	RDM - DMX/RDM	M - Metal CCMMW - D4 CC Driver only C - Quick Connect, only available for D1 Drivers in CE market	(Blank) - ETL listed -CE - CE compliant -277 - 277 VAC version

To complete the form, simply select an option at the bottom of each column to populate the last row with your desired part number.

PRODUCT SPECIFICATIONS (ARCSYSTEM DRIVERS)

Control

Input method	DMX-512 via RJ45
Protocols	DMX, RDM
Modes (footprint)	D1/D1HO Driver: 1 channel and 1 luminaire D2 Driver: up to 2 channels and a total of 2 luminaires D4 Driver: up to 4 channels and a total of 4 luminaires
RDM configuration	Yes (with RDM option)
UI type	No UI, Configuration via RDM
Local control	No

Electrical

Voltage range	D1, D1HO and D2 Driver: 100–277 VAC 50/60 Hz D4 CC Driver: 100–240 VAC 50/60 Hz D4 available in 277 VAC with model number adder -277
Input method	Wiring compartment with two half-inch knock-outs at each end for field wiring D4: Removable plate for field drilled holes
Inrush	Inrush and Fixture Per Circuit information on Page 3
Wattage (max / standby)	D1 Driver: 20 W/<0.5 W D1HO Driver: 100 W/<3 W D2 Driver: 20 W/<0.5 W D4 CC Driver: 115 W/<0.5 W
Power factor	>0.9
Current draw	D1 Driver: 0.20 A at 120 VAC D1HO Driver: 0.83 A at 120 VAC D2 Driver: 0.17 A at 120 VAC D4 CC Driver: 0.95 A at 120 VAC
Constant Current Output (per channel where multiple)	D1 Driver: 400/600 mA configureable D1HO Driver: 2080 mA D2 Driver: 200 mA D4 CC Driver: 400/600 mA configureable
Recommended maximum cable length from driver to luminaire	D1 Driver: 15 m (49 ft 2 in) D1HO Driver: 1 m (3 ft 3 in) D2 Driver: 15 m (49 ft 2 in) D4 CC Driver: 15 m (49 ft 2 in)

Thermal

Ambient operating temp	0–40°C (32–104°F)
Fan (controllable)	N/A (convection cooled)
BTUs/hour	D1 Driver: 85 D1HO Driver: 341 D2 Driver: 68 D4 CC Driver: 361

Physical

Materials	Die-cast aluminum and cold-rolled steel
Color options	Black
Mounting options	4 screw holes in rear plate D1 Quick Connect has an included mounting strap (see drawing page 7) Optional recessed bracket for D1 or D1HO (see separate datasheet)
IP rating	IP-20 (dry locations only)
Weight	D1 Driver: 0.61 kg (1.35 lb) D1HO Driver: 1.14 kg (2.50 lb) D2 Driver: 0.71 kg (1.55 lb) D4 CC Driver: 1.9 kg (4.2 lb)

Warranty

Driver	5 years
Website	etconnect.com/Support/Warranty.aspx

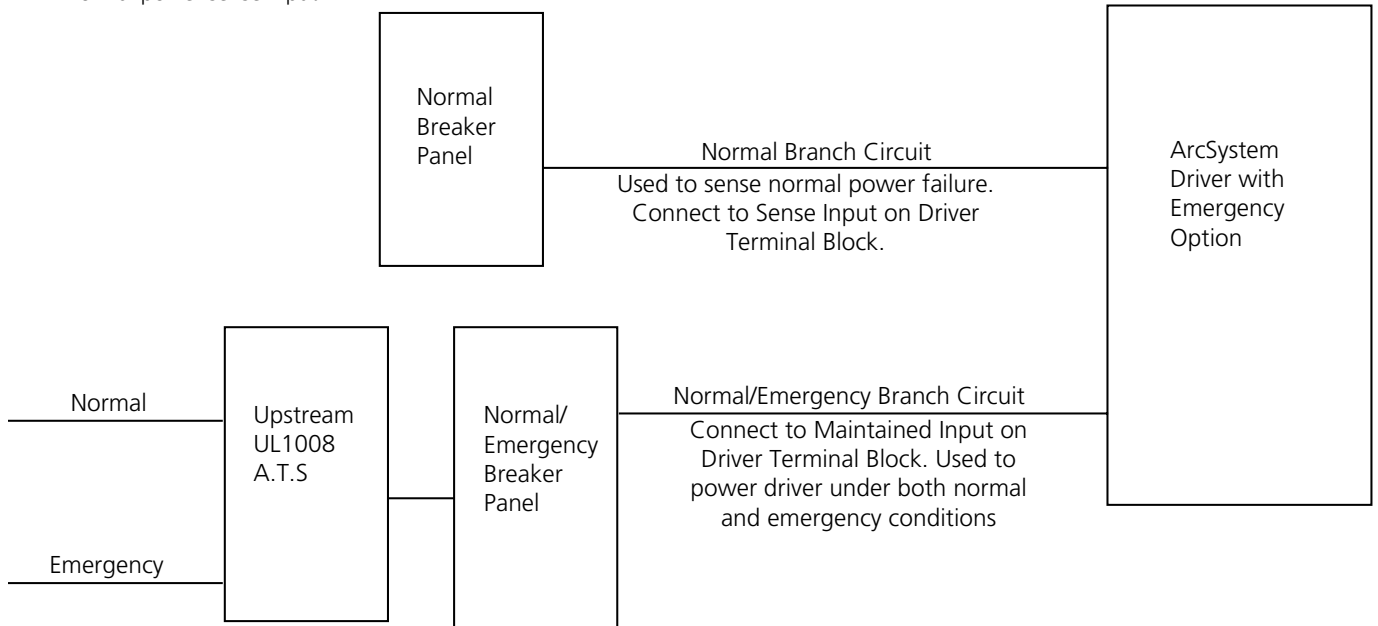
Regulatory and Compliance

Approved regulatory standards	Standard version cETLus Listed Conforms to ANSI/UL STD.8750 Certified to CSA STD. C22.2 No: 250.13 CE Compliant EAC Compliant UKCA Compliant Emergency version cETLus Listed Conforms to ANSI/UL STD.924 Certified to CSA STD. C22.2 No: 141 CE Compliant EAC Compliant UKCA Compliant D1 Quick Connect Standard and Emergency version CE Compliant EAC Compliant UKCA Compliant D1/D1HO/D4 CC suitable for use in air handling systems by NEC 300.22(C)(3)
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EMERGENCY CONNECTION

A dual-input emergency version of this driver is available. Emergency drivers have two line-voltage leads that are wired to the product and have the following functions:

- Normal power/emergency power
- Normal power sense input



If normal power to the sense input is lost, the driver will force the luminaire on at 100% overriding all other control signals. There is no control of the driver/luminaire via DMX until normal power is restored at the sense input.

ACCESSORY INFORMATION

D1/D2/D4 Extension Cables (to Pro One-Cell Luminaire)

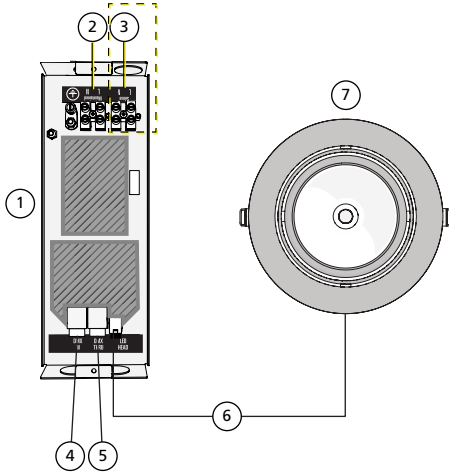
MODEL NUMBER	DESCRIPTION
ARCDHBC1	1 m extension cable
ARCDHBC2	2 m extension cable
ARCDHBC3	3 m extension cable
ARCDHBC5	5 m extension cable
ARCDHBC10	10 m extension cable

***EXTENSIONS MAY NOT BE USED FOR D1HO/PRO ONE-CELL HIGH-OUTPUT**

INRUSH AND FIXTURE PER CIRCUIT INFORMATION

	ARCPD1D / ARCPED1D	ARCPD1HD / ARCPED1HD	ARCPD2D / ARCPED2D	ARCPD4D / ARCPED4D
Max Inrush	20 A at 120 V 11 A at 230 V	65 A at 120 V 34 A at 230 V	20 A at 120 V 11 A at 230 V	15 A at 120 V 8 A at 230 V
120 V, 20 A, High Inrush (Sensor or SensorIQ)	80 drivers powering 80 luminaires	19 drivers powering 19 luminaires	94 drivers powering 188 luminaires	16 drivers powering 64 luminaires
120 V, 20 A, Standard Inrush (Echo Relay Panel Mains Feed)	80 drivers powering 80 luminaires	19 drivers powering 19 luminaires	94 drivers powering 188 luminaires	16 drivers powering 64 luminaires
230 V, 10 A, C-Curve (Sensor)	80 drivers powering 80 luminaires	19 drivers powering 19 luminaires	94 drivers powering 188 luminaires	16 drivers powering 64 luminaires
230 V, 15 A, C-Curve (Sensor)	120 drivers powering 120 luminaires	28 drivers powering 28 luminaires	141 drivers powering 282 luminaires	25 drivers powering 100 luminaires

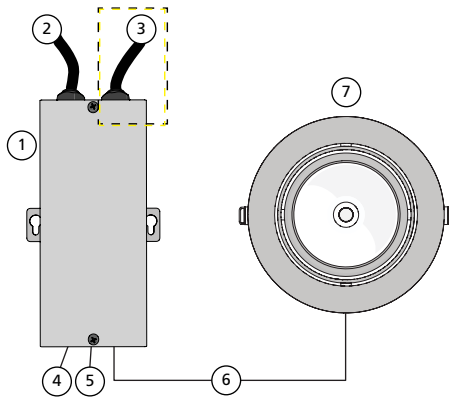
D1 DRIVER WIRING DIAGRAM



	Description	Notes
1	ArcSystem Pro D1 Driver	ARCPD1DRDMM ARCPED1DRDMM (Emergency)
2	Maintained input power	Up to 6 mm ² (10 AWG) line/neutral/ground 100–277 VAC, 50/60 Hz ARCPD1DRDMM: normal branch circuit ARCPED1DRDMM: normal/emergency branch circuit from UL1008 automatic transfer switch (ATS) by others
3	Sense input power (emergency models only)	Up to 6 mm ² (10 AWG) line/neutral/ground 100–277 VAC, 50/60 Hz, normal branch circuit (ARCPED1DRDMM only)
4	DMX input from external DMX source	RJ45 connector, Cat5e (or equivalent) 0.2 mm ² (24 AWG) or larger conductors terminated to T568B standard
5	DMX thru to another ArcSystem Pro Driver or other device	RJ45 connector, Cat5e (or equivalent) 0.2 mm ² (24 AWG) or larger conductors terminated to T568B standard
6	Luminaire cable	18 AWG with Molex Mini-Fit connector, provided attached to luminaire. Extension cables are available (see page 3).
7	ArcSystem Pro One-Cell or One-Cell Small luminaire ARCP1 or ARCP1S	

Note: The illustration is not drawn to scale.

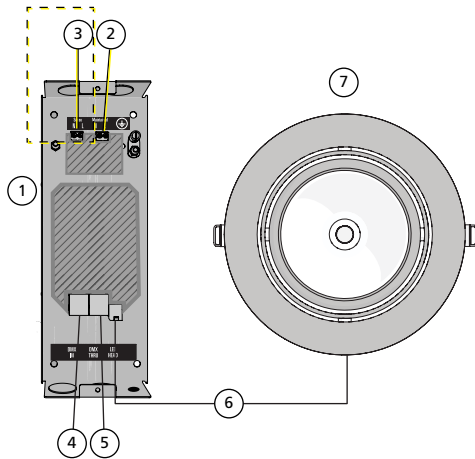
D1 DRIVER QUICK CONNECT WIRING DIAGRAM



	Description	Notes
1	ArcSystem Pro D1 Driver Quick Connect	ARCPD1DRDMC ARCPED1DRDMC (Emergency)
2	Maintained input power	Use the provided cable: 18 AWG line/neutral/ground with a #8 22–18 AWG (0.5–1 mm ²) ring terminal on ground 100–277 VAC, 50/60 Hz ARCPD1DRDMC: normal branch circuit ARCPED1DRDMC: normal/emergency branch circuit from UL1008 automatic transfer switch (ATS) by others
3	Sense input power (emergency models only)	Use the provided cable: 18 AWG line/neutral/ground with a #8 22–18 AWG (0.5–1 mm ²) ring terminal on ground 100–277 VAC, 50/60 Hz, normal branch circuit (ARCPED1DRDMC only)
4	DMX input from external DMX source	RJ45 connector, Cat5e (or equivalent) 0.2 mm ² (24 AWG) or larger conductors terminated to T568B standard
5	DMX thru to another ArcSystem Pro Driver or other device	RJ45 connector, Cat5e (or equivalent) 0.2 mm ² (24 AWG) or larger conductors terminated to T568B standard
6	Luminaire cable	18 AWG with Molex Mini-Fit connector, provided attached to luminaire. Extension cables are available (see page 3).
7	ArcSystem Pro One-Cell or One-Cell Small luminaire ARCP1 or ARCP1S	

Note: The illustration is not drawn to scale.

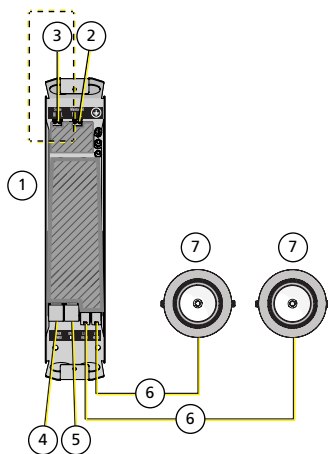
D1HO DRIVER WIRING DIAGRAM



	Description	Notes
1	ArcSystem Pro D1HO Driver	ARCPD1HDRDMM ARCPED1HDRDMM (Emergency)
2	Maintained input power	0.5–10 mm ² (22–6 AWG) line/neutral 2.5–10 mm ² (6–14 AWG) ground 100–277 VAC, 50/60 Hz ARCPD1HDRDMM: normal branch circuit ARCPED1HDRDMM: normal/emergency branch circuit from UL1008 automatic transfer switch (ATS) by others
3	Sense input power (emergency models only)	0.5–10 mm ² (22–6 AWG) line/neutral 2.5–10 mm ² (6–14 AWG) ground 100–277 VAC, 50/60 Hz, normal branch circuit (ARCPED1HDRDMM only)
4	DMX input from external DMX source	RJ45 connector, Cat5e (or equivalent) 0.2 mm ² (24 AWG) or larger conductors terminated to T568B standard
5	DMX thru to another ArcSystem Pro Driver or other device	RJ45 connector, Cat5e (or equivalent) 0.2 mm ² (24 AWG) or larger conductors terminated to T568B standard
6	Luminaire cable	18 AWG with Molex KK connector, provided attached to luminaire.
7	ArcSystem Pro One-Cell High Output luminaire ARCP1H	

Note: The illustration is not drawn to scale.

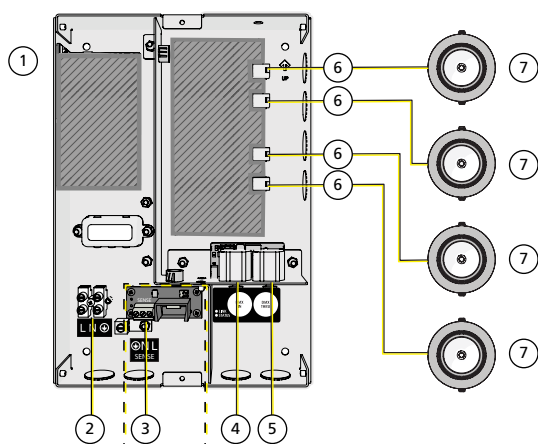
D2 DRIVER WIRING DIAGRAM



	Description	Notes
1	ArcSystem Pro D2 Driver	ARCPD2DRDMM ARCPED2DRDMM (Emergency)
2	Maintained input power	0.5–10 mm ² (22–6 AWG) line/neutral 2.5–10 mm ² (6–14 AWG) ground 100–277 VAC, 50/60 Hz ARCPD2D: normal branch circuit ARCPED2D: normal/emergency branch circuit from UL1008 automatic transfer switch (ATS) by others
3	Sense input power (emergency models only)	0.5–10 mm ² (22–6 AWG) line/neutral 2.5–10 mm ² (6–14 AWG) ground 100–277 VAC, 50/60 Hz, normal branch circuit (ARCPED2DRDMM only)
4	DMX input from external DMX source	RJ45 connector, Cat5e (or equivalent) 0.2 mm ² (24 AWG) or larger conductors terminated to T568B standard
5	DMX thru to another ArcSystem Pro Driver or other device	RJ45 connector, Cat5e (or equivalent) 0.2 mm ² (24 AWG) or larger conductors terminated to T568B standard
6	Luminaire cable	18 AWG with Molex Mini-Fit connector, provided attached to luminaire. Extension cables are available (see page 3).
7	ArcSystem Pro One-Cell Micro luminaire ARCP1M	

Note: The illustration is not drawn to scale.

D4 CC DRIVER WIRING DIAGRAM



	Description	Notes
1	ArcSystem Pro D4 CC Driver	ARCPD4DRDMCCMMW ARCPED4DRDMCCMMW (Emergency)
2	Input power	0.5–10 mm ² (22–6 AWG) line/neutral, 2.5–10 mm ² (14–6 AWG) ground 100–240 VAC, 50/60 Hz or 277 VAC, 50/60 Hz (models ending in “-277”) ARCPD4DRDMCCMMW: normal branch circuit ARCPED4DRDMCCMMW: normal/emergency branch circuit from UL1008 automatic transfer switch (ATS) by others
3	Sense input power (emergency models only)	0.2–2.5 mm ² (24–14 AWG) line/neutral/ground 100–240 VAC, 50/60 Hz, normal branch circuit or 277 VAC, 50/60 Hz, normal branch circuit (models ending in “-277”) (ARCPED4DRDMCCMMW only)
4	DMX input from external DMX source	RJ45 connector, Cat5e (or equivalent) 0.2 mm ² (24 AWG) or larger conductors terminated to T568B standard
5	DMX thru to another ArcSystem Pro Driver or other device	RJ45 connector, Cat5e (or equivalent) 0.2 mm ² (24 AWG) or larger conductors terminated to T568B standard
6	Luminaire cable	18 AWG with Molex Mini-Fit connector, provided attached to luminaire. Extension cables are available (see page 3).
7	ArcSystem Pro One-Cell or One- Cell Small luminaire ARCP1 or ARCP1S	
Note: The illustration is not drawn to scale.		

PHYSICAL

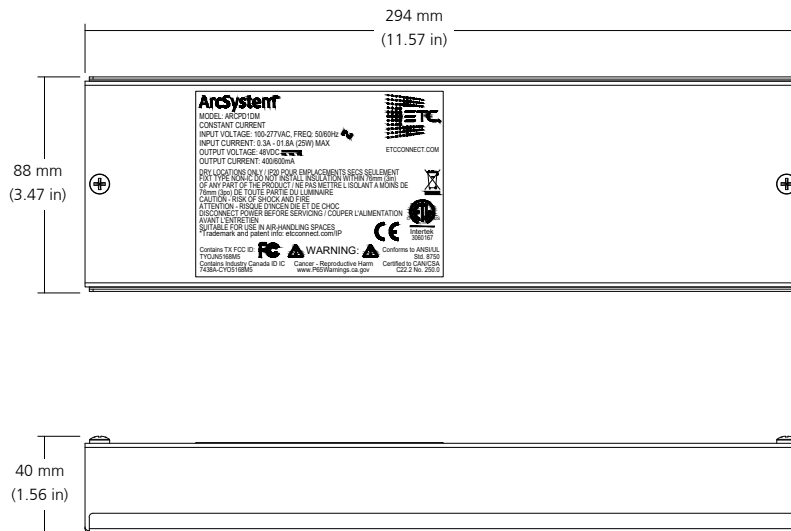
Product Dimensions

MODEL	HEIGHT		WIDTH		DEPTH	
	in	mm	in	mm	in	mm
D1 Driver	1.56	40	11.57	294	3.47	88
D1 HO Driver	3.03	77	9.98	253	3.49	89
D2 Driver	1.80	46	12.00	305	2.56	64
D4 CC Driver	11.09	282	8.20	209	2.28	58

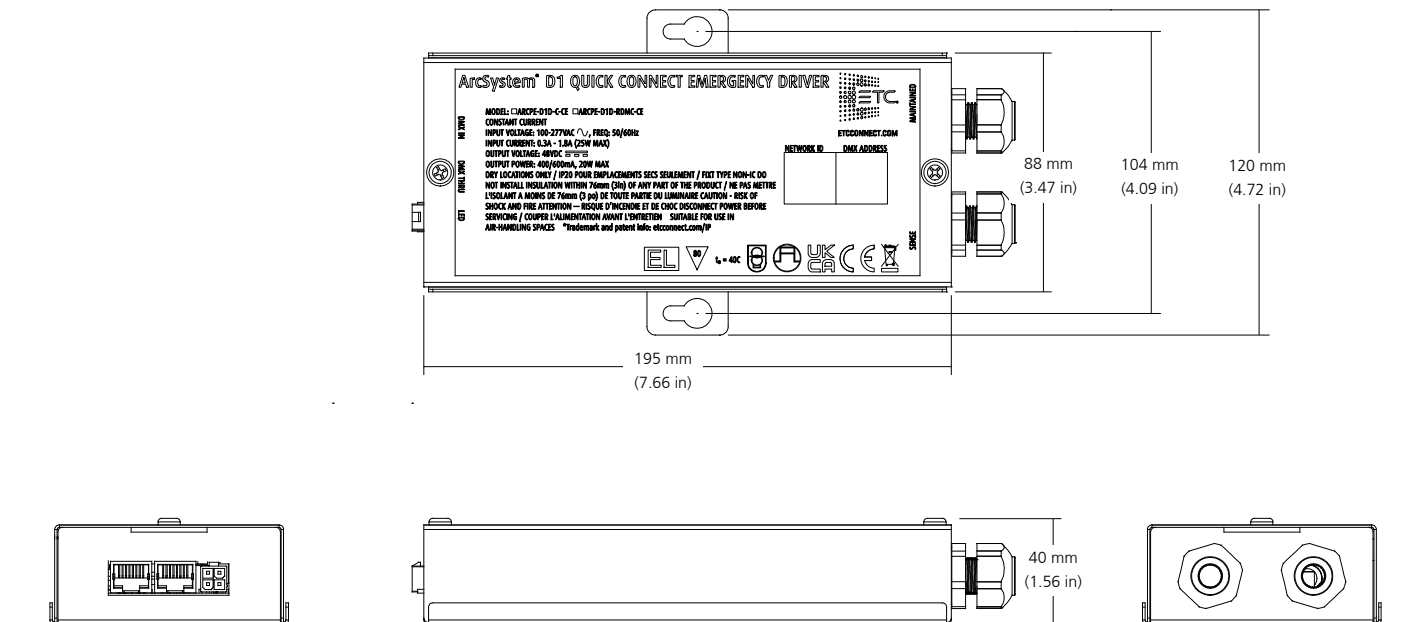
Product Weight

MODEL	WEIGHT		SHIPPING WEIGHT	
	lb	kg	lb	kg
D1 Driver	1.35	0.61	1.70	0.77
D1 HO Driver	2.50	1.14	2.85	1.30
D2 Driver	1.55	0.71	1.95	0.89
D4 CC Driver	4.2	1.9	5.2	2.3

ARCSYSTEM D1 DRIVER

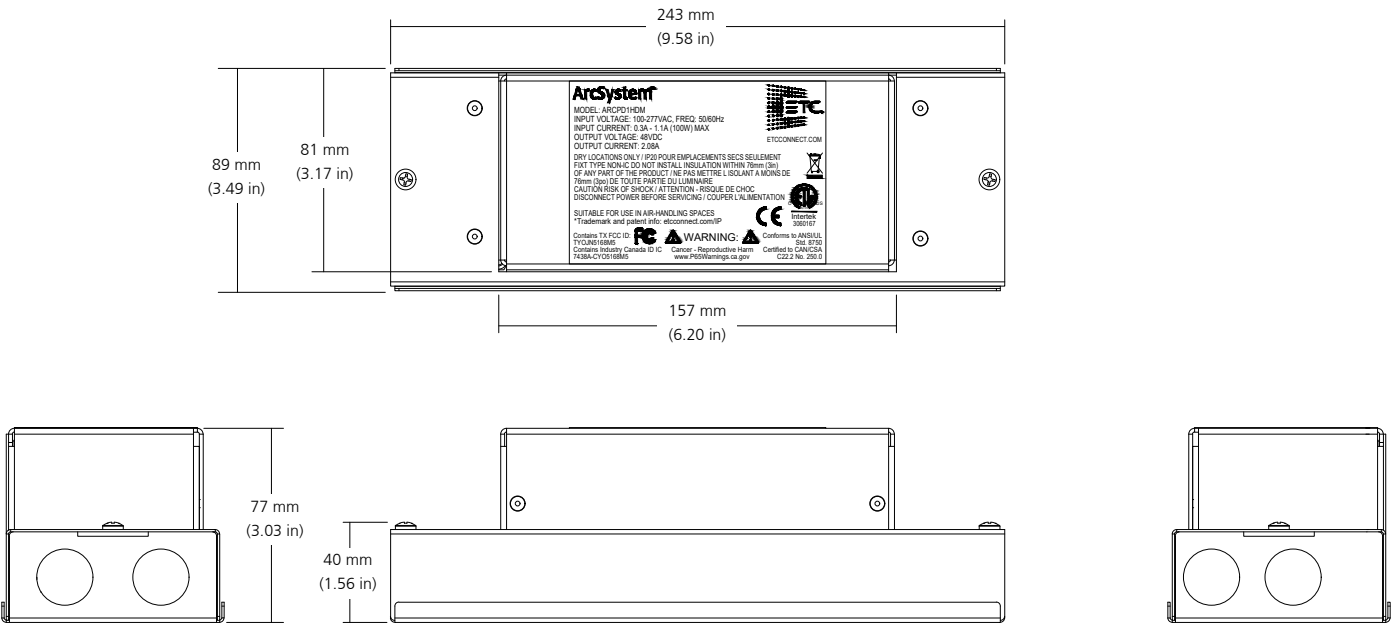


ARCSYSTEM D1 QUICK CONNECT

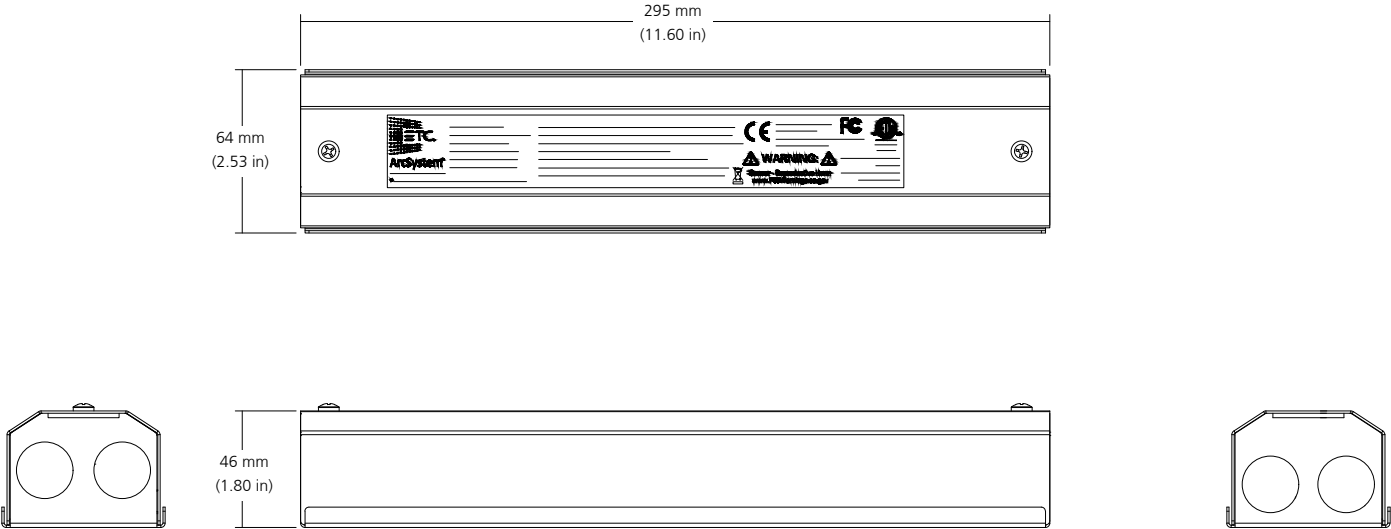


PHYSICAL

ARCSYSTEM D1 HIGH-OUTPUT DRIVER

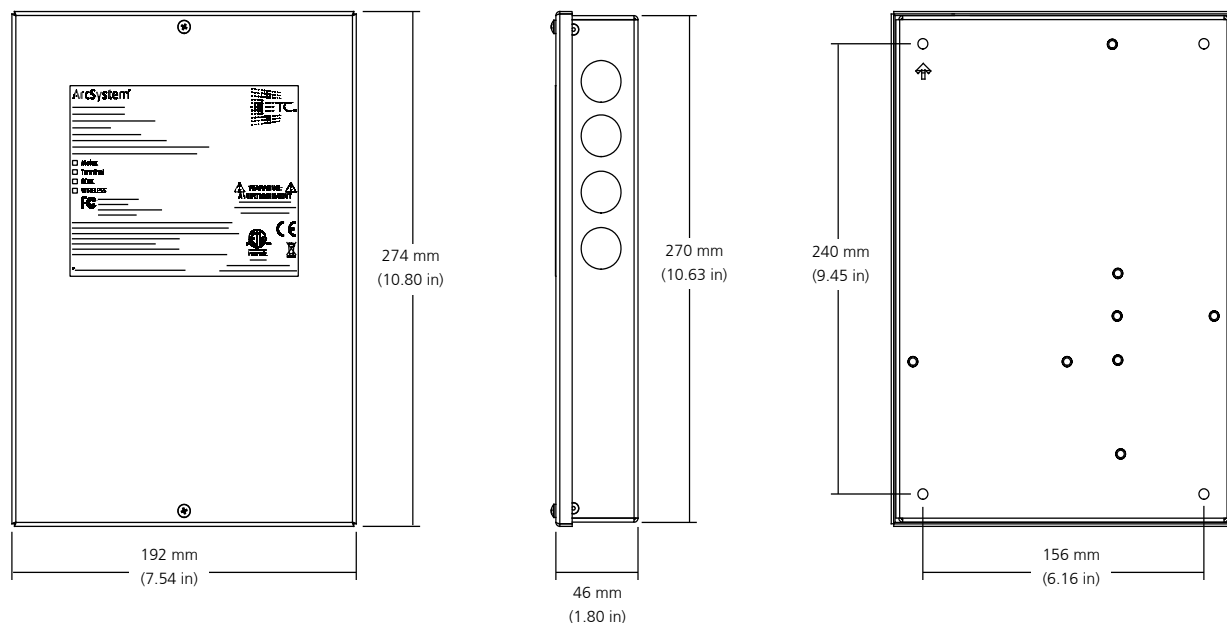


ARCSYSTEM D2 DRIVER



PHYSICAL

ARCSYSTEM D4 CC DRIVER



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