ENGLISH

SPECIFICATIONS



c UL us
LISTED
UL 3141 UL 1741
ULC/ORD-C3141 CSA C22.2 No. 14
E553792

Black Box Innovations Multi-Residential Hub uses fail-safe technology. If the energy manager (PCS) experiences a loss of signal from the Hub it will automatically default to the safe position, by disconnecting the power to the end device.

Our patented automatic load management Hub system or Power Control Hub system (PCS) provides the ability to monitor the utility feed lines of a Multi-Residential building to ensure these lines do not overload.
It uses intelligent equalization technology to ensure all suites of a multi-residential dwelling have equal access to power when an overload condition occurs and works seamlessly with the Black Box PCS-240 product line. This is an essential part of providing multi-stage electrical energy management to a Multi-Residential electrical structure thereby alleviating the need for a feed, electrical panel and/or service upgrade.

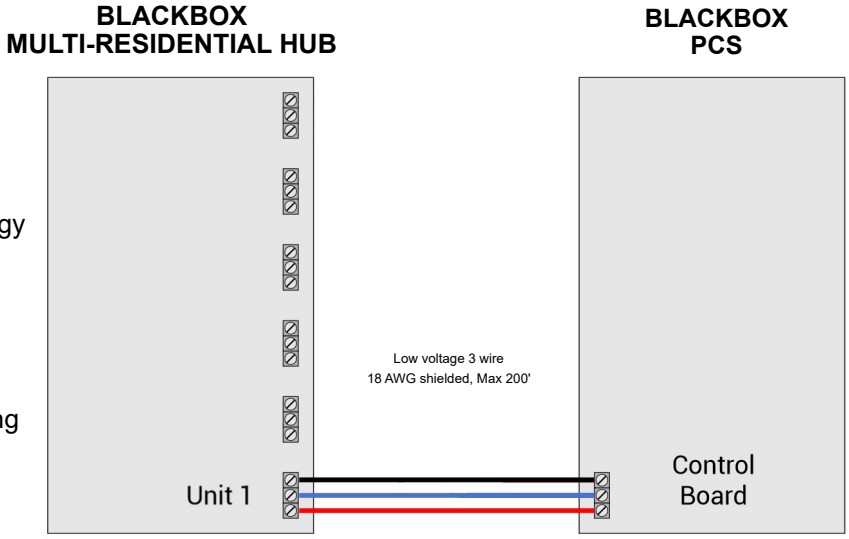
**Refer to settings chart for installation options.*

Electrical service to be monitored	Main Service: 200 - 600 Amp. Volts: 208, 240VAC or 120/208, 120/240VAC
Phase	
PCS-240-HUB-XXX-1PH-6:	Single Phase
PCS-240-HUB-XXX-3PH-6:	Three Phase
Current	0.5 Amp
Model Numbers By Type	**PCS-240-HUB-XXX-6-200 (3R)** for 200 Amp Main Electrical Service To Be Monitored **PCS-240-HUB-XXX-6-400 (3R)** for 400 Amp Main Electrical Service To Be Monitored **PCS-240-HUB-XXX-6-600 (3R)+** for 600 Amp Main Electrical Service To Be Monitored
Voltage	5 VDC Class 2
Operation Ambient Temp	**NEMA 3R**: -40°F to 104°F (-40°C to 40°C)
TYPE 3R Dimensions*	L: 8 ¼" x W: 6 ½" x D: 4 ¼" – 5.5 lbs
End Device Current Range	12 - 80 Amps* **Refer to settings chart for options*

KEY FEATURES:

- Protects main utility feed from overloading in Multi-Residential applications
- Intelligent algorithm operation with equalization technology ensures all suites have equal access to power
- Fast and easy to install
- Small size fits in tight areas around electrical utility connections (8 1/4" x 6 1/4" x 4 1/4")
- Longest charge times due to intelligent current monitoring
- No need to disconnect the main utility feed wires
- No power connection to main utility feed wires
- Real-time reading of the total current usage
- Auto-sensing the number of suite Black Boxes connected
- Lockable TYPE 3R enclosure

Multi-Residential Hub To Black Box PCS



Incorrect wire orientation will cause system not to function, and could cause damage to the energy management installation.

+Special order only

For more information email: info@blackboxinnovations.com or go to www.blackboxinnovations.com

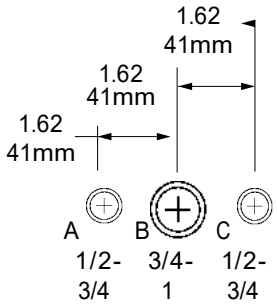
© Copyright 2026 Black Box Innovations Inc.

ENGLISH

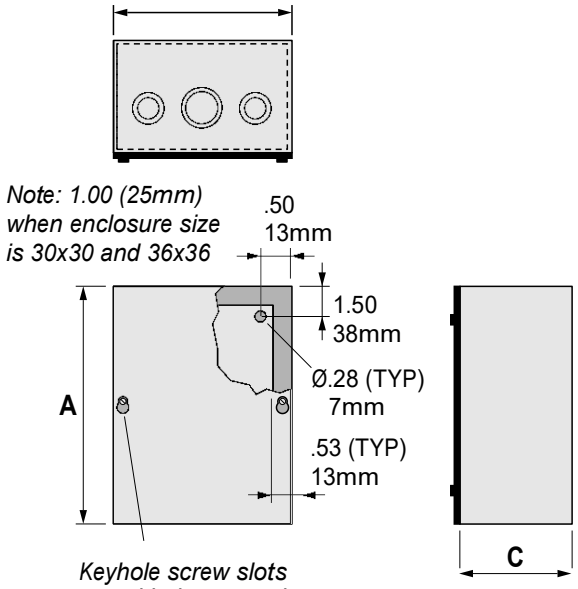
BlackBox Innovations

ENCLOSURE DIMENSIONS

	Inches	mm
A	8 1/4	209.55
B	6 1/4	158.75
C	4 1/4	107.95



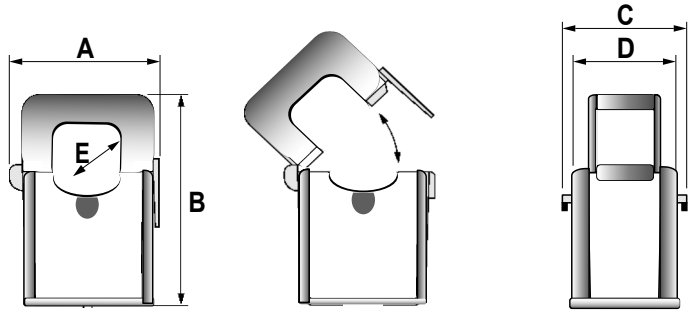
CONDUIT SIZES
Knockout Pattern
(from outside of box)



Model PCS-240-HUB-1PH-6-200 DIMENSIONS *

	Inches	mm
A	1.90	48.26
B	2.70	68.58
C	1.80	45.72
D	1.40	35.56
E	0.96	24.38

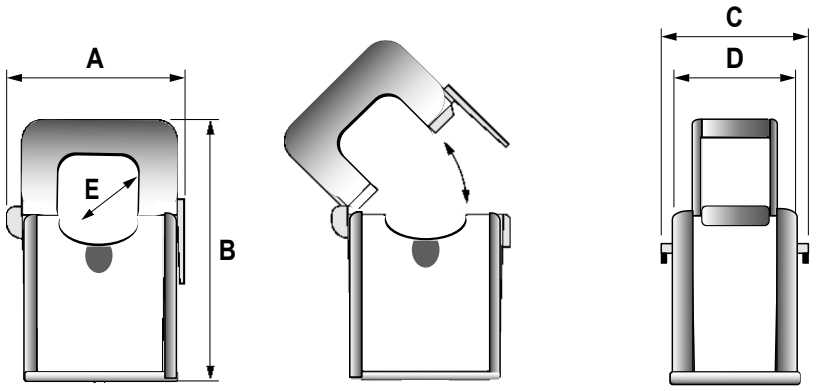
Lead length 20 feet or 6 meters



Model PCS-240-HUB-1PH-6-400 DIMENSIONS *

	Inches	mm
A	2.50	63.50
B	3.30	83.82
C	2.00	50.8
D	1.60	40.64
E	1.45	36.83

Lead length 20 feet or 6 meters



* All measurements approximate

© Copyright 2026 Black Box Innovations Inc.

ENGLISH

BlackBox Innovations

INCLUDED

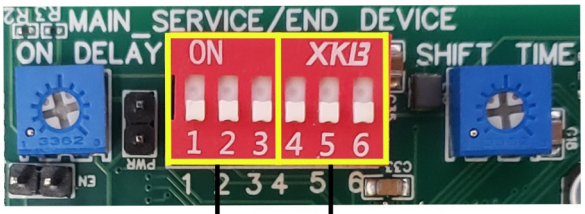
- Multi-Residential Hub System & Enclosure
- Split Core Current Transformers (CT)
- Installation Manual
- Device Controlled Label x6

MODEL NAMING CONVENTION:

PCS-240-HUB-XXX-X-XXX

Series	Type	Phase	Suites to Accomodate	Utility Feed Size
		-1PH -3PH		-200 A -400 A -600 A

PCS-240-HUB-XXX-6-XXX



Utility Feed / Main Service Current Rating	DIP Switch 1	DIP Switch 2	DIP Switch 3
Settings Below are for Main Breakers Rated at 80% Continuous Load Only			
180	OFF	OFF	OFF
200	OFF	OFF	ON
400	OFF	ON	OFF
600	OFF	ON	ON
Settings Below are for Main Breakers Rated at 100% Continuous Load Only			
180	ON	OFF	OFF
200	ON	OFF	ON
400	ON	ON	OFF
600	ON	ON	ON

	End Devices Being Controlled Max Current	DIP Switch 4	DIP Switch 5	DIP Switch 6
	12	OFF	OFF	OFF
	16	OFF	OFF	ON
	24	OFF	ON	OFF
	32	OFF	ON	ON
	40	ON	OFF	OFF
	48	ON	OFF	ON
*	64	ON	ON	OFF
*	80	ON	ON	ON

*Future availability

All settings are applicable for EV chargers or other loads that tolerate switching the power off when required. When using other loads that are not referred to in this chart use the next higher current setting than the device's current rating.

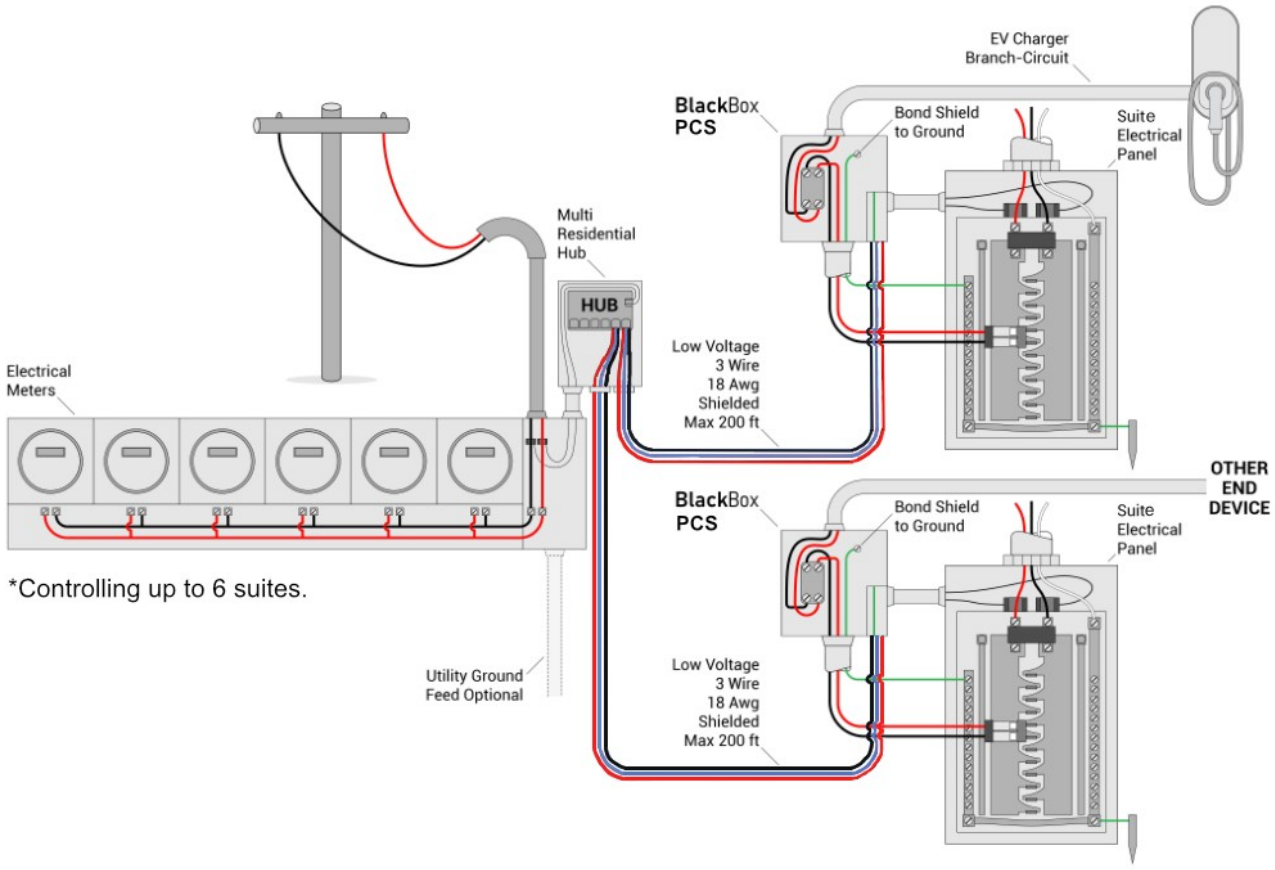
SCAN HERE FOR INSTALLATION MANUAL & MAINTENANCE SUPPORT

FLASHES	ERROR CODE DESCRIPTION
3	Shutdown Due to High Temperature
4	Hub Disconnection or Dry Contact Override
5	Hub Shutdown Override
6	CT is Disconnected, or Open
7	CT is Shorted

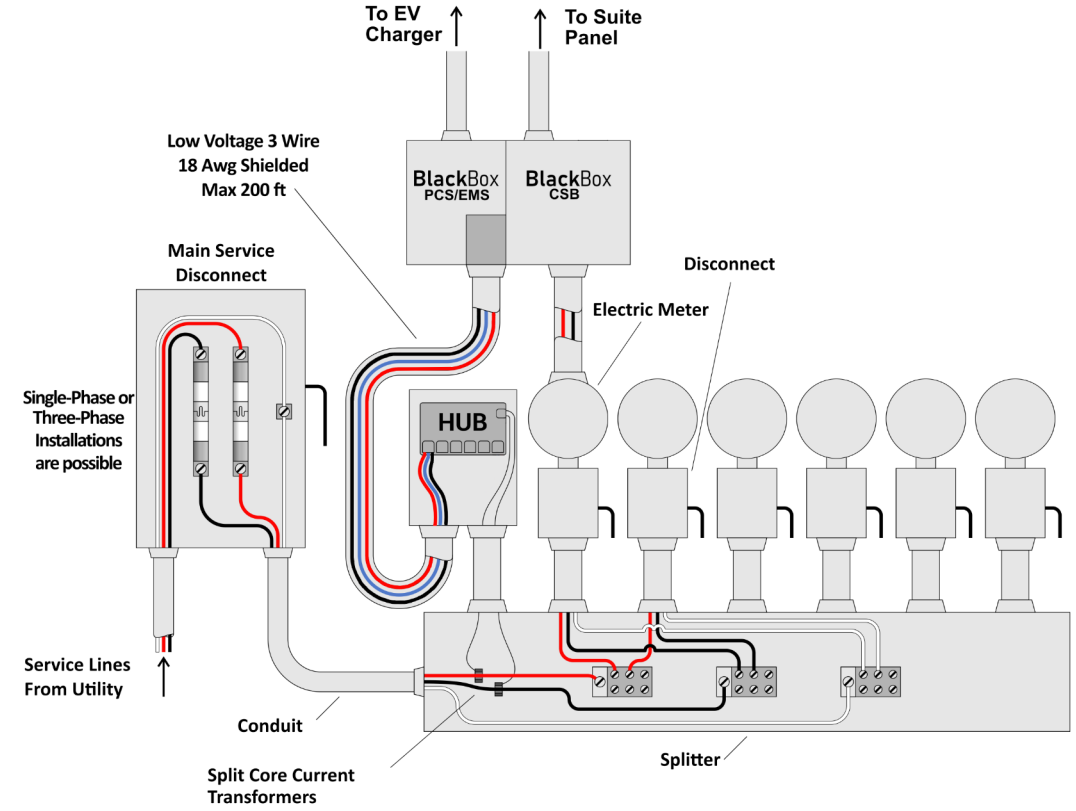
© Copyright 2026 Black Box Innovations Inc.

ENGLISH

Installation Diagram



Installation Option 1*

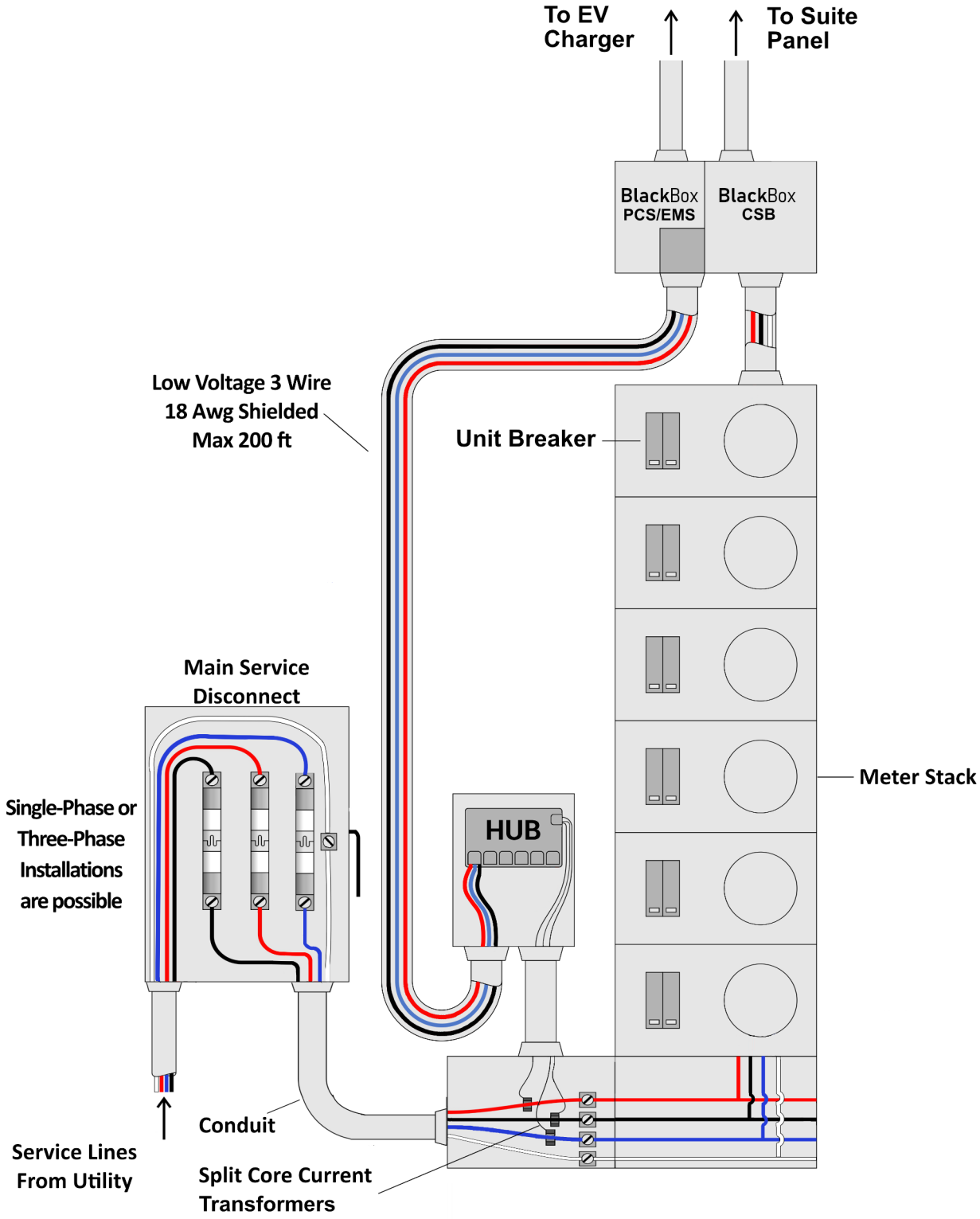


Utility provider may need to provide access to metering equipment. All safety precautions required must be planned for and executed prior to installation.

© Copyright 2026 Black Box Innovations Inc.

ENGLISH

Installation Option 2*



Utility provider may need to provide access to metering equipment. All safety precautions required must be planned for and executed prior to installation.
*Other installation orientations are acceptable.

© Copyright 2026 Black Box Innovations Inc.