

HUBBELL
Power Systems



MAKE THE SWITCH

LineDefender™



Rethink your recloser

It's time to rethink your recloser. LineDefender™ combines outage prevention reclosing technology with the safety and intuitive ease-of-use lineworkers deserve. The maintenance-free design can easily replace a fused cutout, allowing cost-effective deployment toward the circuit edge.

Single-Point Mount

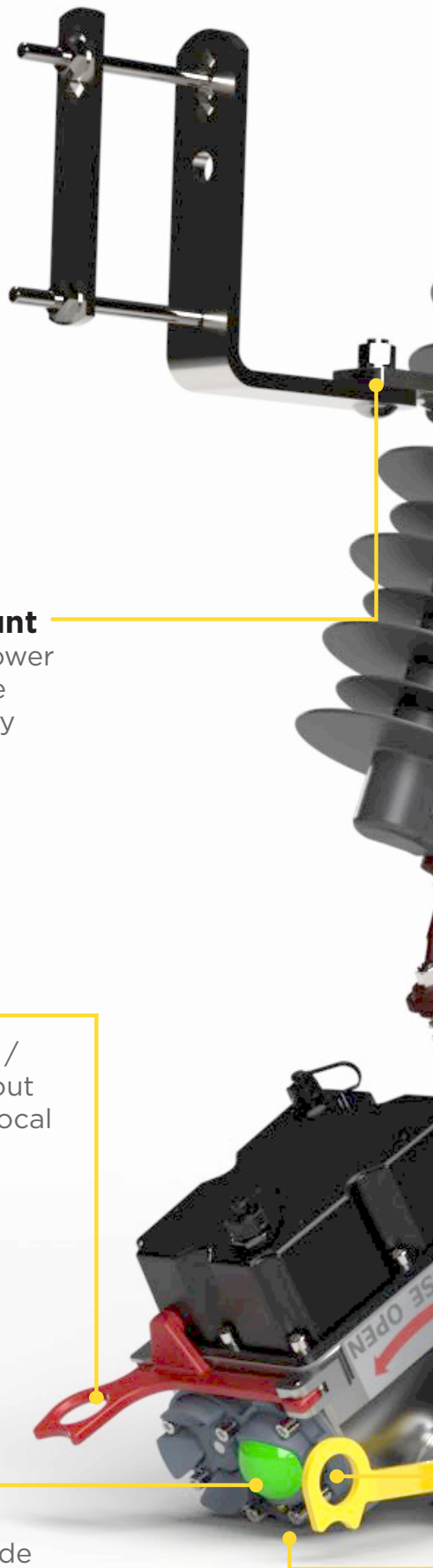
Easily mount the power fuse cutout with the included, heavy duty crossarm bracket

Red Handle

Initiate non-reclose / instantaneous lockout modes or activate local communications

Semaphore

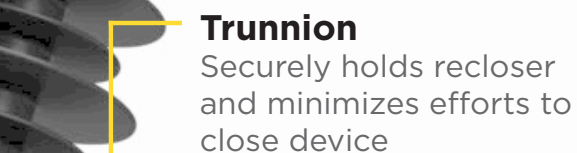
Mechanically-linked semaphore to provide visual open (green) and close (red) status





Positive Latch

Secure latching prevents accidental opening

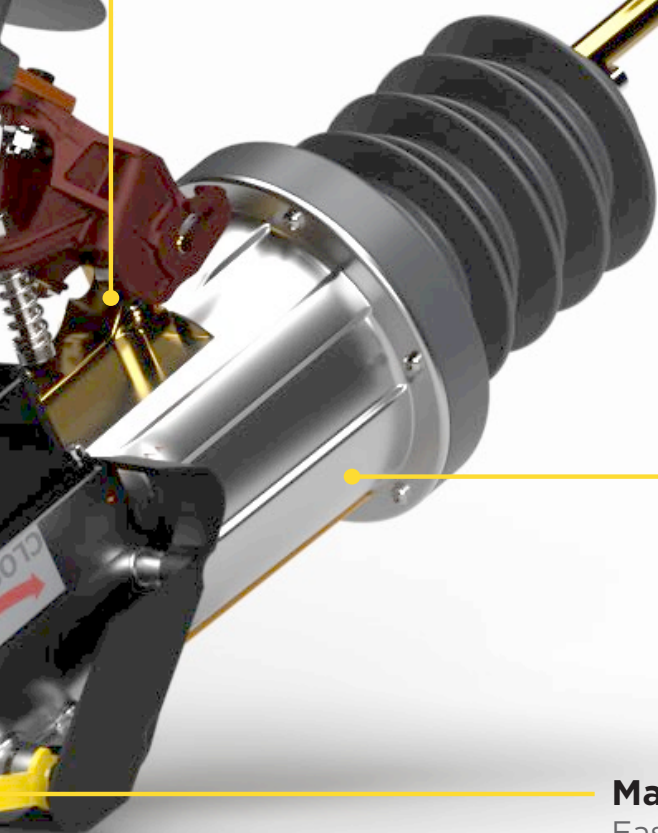


Trunnion
Securely holds recloser and minimizes efforts to close device



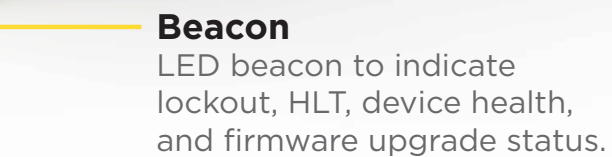
Hookstick Level

Unlatches the recloser to create a visible break.



Durable Materials

Cycloaliphatic epoxy (CEP) bushing and marine grade painted aluminum housing



Beacon
LED beacon to indicate lockout, HLT, device health, and firmware upgrade status.

Manual Operating Handle

Easily open or close the vacuum bottle from the ground using a hotstick

Designed for lineworkers



The LineDefender™ design enables utility personnel to do their jobs simply and safely. Upon reclosing lockout, the device remains in the cutout. Resetting the LineDefender is as easy as actuating the yellow handle safely from the ground. Tripped reclosers are easy to find with a flashing beacon and a wide-angle semaphore.



Safety

- Restore power from the safety of the ground with the simple toggling of a handle
- Eliminate arcing exposure by using the vacuum bottle to pick up load
- Prevent accidental opening and falling device hazards with a secure latching closure
- Visible break provides assurance during de-energized linework
- Guided closure enables the safest working angle to physically close and latch shut

Ease of use

- Avoid the time and hassle of full PPE and climbing into the bucket just to close a switch
- Intuitive operation and clear visual indicators are based on three-phase recloser principles
- Bright amber beacon helps quickly locate faults in the bright sun or pitch-black darkness
- Access LineDefender from the comfort of the truck cab with wireless communications
- Easy to install onto the included single-point-mount bracket just like replacing a fused cutout

Designed to perform

Reliability

- Meets full recloser standard for $>2\text{kA}$ and $< 8\text{kA}$; IEC 62271-111:2019, IEEE C37.60:2018
- Robust construction allows the device to lockout and be reset while remaining in the cutout.
- Mechanical open and close mechanism provides reliable and predictable performance
- Harvesting design with capacitors allows battery-free operation at low current levels
- Semaphore is mechanically linked to vacuum interrupter to provide assurance

Advanced Technology

- Remote SCADA communications module is easily retrofittable and securely attached
- Integrated Wi-Fi® and Bluetooth® can be securely activated by toggling red handle
- Embedded GPS allows ± 10 ms accuracy for easy analysis across multiple devices
- Logging storage, including oscillography, enables comprehensive troubleshooting
- Meets IEEE 1686 cybersecurity standard

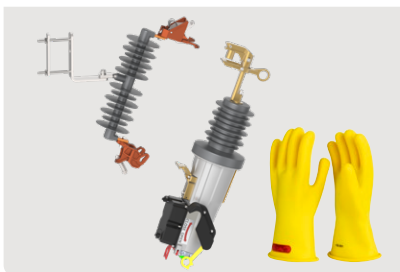




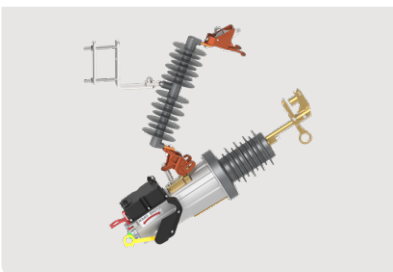
Contains FCC ID: B179621894
The enclosed device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions: (1) this
device may not cause harmful interference and (2) this device
must accept any interference received, including interference
that may cause undesired operation. P071706107

Easy Installation

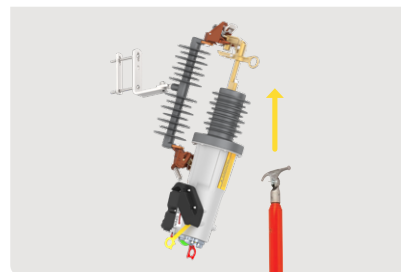
It fits into the construction envelope of a power fuse cutout, attaching to the heavy duty crossarm bracket with a single bolt. Positive latching mechanism provides confirmation of secure installation.



- Power fuse cutout with single-point mount
- Specially designed trunnion and locking powerfuse latch



- Easily open and close from the ground using a hotstick
- Rigid and secure latching mechanism



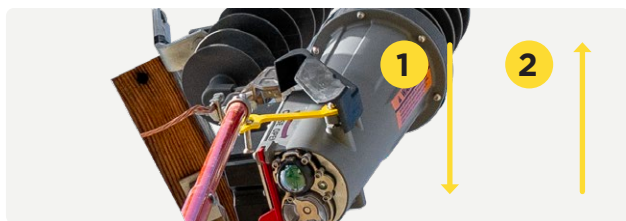
- Completed installation

Operates safely and consistently

LineDefender prevents ergonomic injury and eliminates device falling hazards while restoring power safely from the ground. A bright amber beacon helps quickly locate faults and a durable open and close handle provides repeatable performance.



- Prominent wide-angle semaphore and bright beacon offer clear indicators of device status



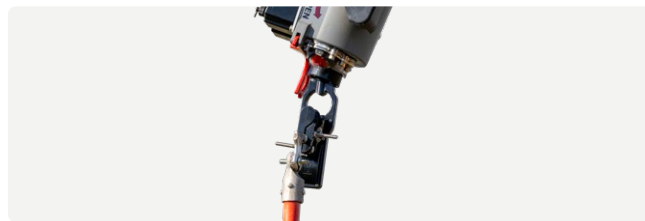
- Safe and quick restoration from the ground using the hotstick-compatible manual operating handle

Extends SCADA visibility and control

LineDefender with SCADA module allows engineering to remotely access and configure devices, providing an affordable extension of SCADA while offering physical device security.



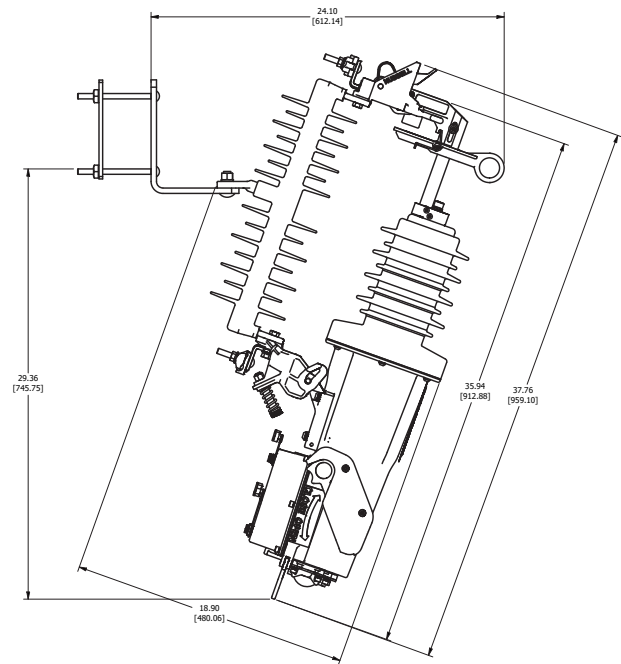
- Secure Wi-Fi® and Bluetooth® for local communications
- Port to add SCADA communication modules
- USB-C port available for direct serial connection



- Easy backup power module for in-field programming and data retrieval during outage or lockout
- Hotstick-compatible metallic NR/HLT handle

Conforms to IEEE standards

Meets standard requirements for non-cutout mounted reclosers per IEEE C37.60:2019 and IEC 62271-111:2019.



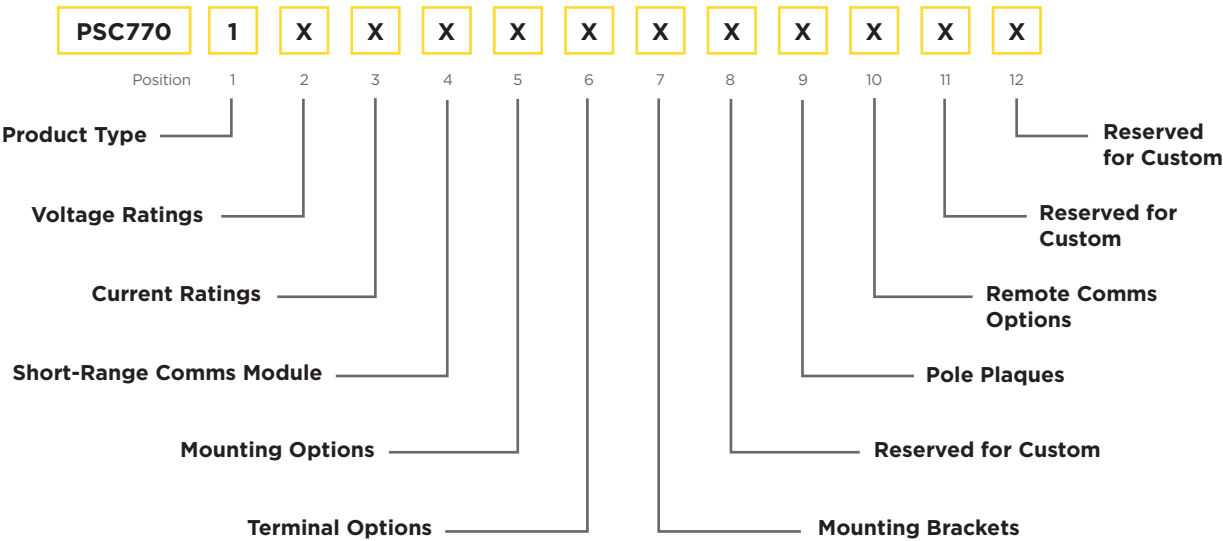
Ratings & Specifications

Rated Continuous Current	Rated Max Voltage	Fault Make Peak	Fault Break Capacity	Lightning Impulse Withstand	60Hz 1-Minute Withstand Voltage	Operating Temperature	Weight
40A	29.3 kV	7.8 kA	3.0 kA	125 kV BIL	60 kV	-40°C to 60°C	44.9 lbs*
100A	29.3 kV	16 kA	6.3 kA	125 kV BIL	60 kV	-40°C to 60°C	44.9 lbs*
200A	29.3 kV	16 kA	6.3 kA	125 kV BIL	60 kV	-40°C to 60°C	44.9 lbs*

*Excludes the weight of cutout and cutout mounting hardware.

Ordering Info

Catalog Numbering System



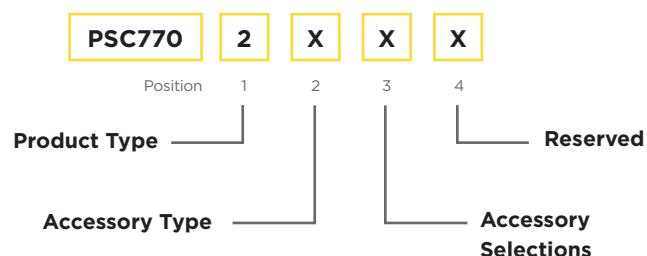
Catalog Options

Position	Variations	Options
1	Product Type (PSC7701121121000XX)	1 = Auto-Recloser Unit
2	Voltage Ratings (PSC7701121121000XX)	1 = 27 kV, 125kV BIL
3	Current Ratings (PSC7701121121000XX)	1 = 40A, 3.0kA
		2 = 100A, 6.3kA
		3 = 200A, 6.3kA
4	Local Comms Module (PSC7701121121000XX)	1 = WiFi / BLE
5	Mounting Options (PSC7701121121000XX)	0 = None / Auto-Recloser Unit Only
		1 = Unit with Power-Fuse Mount
		2 = Unit with Double Insulator Mount
6	Terminal Options (PSC7701121121000XX)	0 = Not Applicable / No Terminal Options
		1 = Parallel Groove Connectors
		2 = Small Eyebolt
		3 = Large Eyebolt
7	Mounting Brackets (PSC7701121121000XX)	0 = No brackets
		1 = Heavy Duty Crossarm Bracket
8	Reserved (PSC7701121121000XX)	0 = None
9	Pole Plaques (PSC7701121121000XX)	0 = None
		1 = One Pole Plaque
		2 = Two Pole Plaques
10	Remote Communications Options (PSC7701121121000XX)	0 = No Remote Comms Module
		1 = SCADA Cellular Modem (Verizon)
		2 = SCADA Cell Modem (AT&T)

Accessories Catalog Options

Position	Variations	Options
1	Product Type (PSC7702XXX)	2 = LineDefender™ Accessories
2	Accessory Type (PSC7702XXX)	1 = External Power Modules
		2 = Remote Communication Module
		3 = Wildlife covers
		4 = Pole Plaques
3	External Power Module Types (PSC77021XX)	1 = Field Plug-in Power Module
		2 = Wall Outlet (120V) based Power Module
3	Remote Communication Module (PSC77022XX)	1 = SCADA Cellular Modem (Verizon)
		2 = SCADA Cell Modem (AT&T)
	Wildlife Covers (PSC77023XX)	1 = Standard Wildlife Covers
	Pole Plaques (PSC77024XX)	1 = One Pole Plaque
		2 = Two Pole Plaques

Accessories Numbering System





Get more done with GridHUBB

GridHUBB™ is a complementary software tool for the administration of Hubbell Utility Solutions intelligent devices, including LineDefender™. With GridHUBB, utilities can quickly create, manage, and commission settings in an intuitive user interface packed with powerful tools and advanced reporting.

Easy setup and navigation

- Intuitive and consistent navigation across different devices
- Profile management for entry and modification of device settings
- TCC curves library and custom curve editor

Actionable insights

- Advanced reporting tools, helpful insights, and actionable data
- Versatile report viewing options, including access to all logs data
- Event oscillography for graphical analysis

Embedded guidance

- Guided self-help conveniently offers information needed for the present task
- Embedded reference and training materials means help is just a click away
- Easy to onboard and train new users

Adaptive workspace

- Connect with Windows, iOS, and Android-compatible devices work from desktop to mobile phone
- Multiple language settings ensure accessibility for diverse workforces
- Role-based access control for features and functionality

HUBBELL

Power Systems

Hubbell Power Systems, Inc. (HPS) manufactures a wide variety of transmission, distribution, substation, OEM and telecommunications products used by utilities.

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