

# S.T.A.R.™ hot line voltage indicator faulted circuit indicators



## Description

Eaton identifies an energized circuit by the pulsating of its high intensity LED display with its Cooper Power™ series S.T.A.R.™ hot line voltage indicators. These voltage indicators can be used on both 200 A separable connectors and 600 A terminators with a voltage test point. The removable sleeve allows for use on major manufacturers' loadbreak elbows. The hot line (HL) voltage indicator is encased in a weatherproof one-piece housing that can be easily installed with a single clampstick using the pulling eye.

The S.T.A.R. hot line voltage indicator provides a reliable means of identifying energized circuits. HL voltage indicators are useful on vault applications where it may be difficult to identify energized and de-energized conductors.

---

## WARNING

---

**This device should not be used as the only indication that a circuit is energized or de-energized. Always use an approved test means to be certain that the circuit is de-energized for deadbreak operation.**

---

## Construction

The S.T.A.R. hot line voltage indicator is a one-piece housing that can be easily installed with a hotstick using the pulling eye. The unit consists of a sensor unit with an integral high intensity LED display. The LED flashes when line voltage is present. The polycarbonate display is made of Lexan® giving the exposed LED window tamperproof and scratch-resistant protection.

## Testing

S.T.A.R. faulted circuit indicators are made of corrosion resistant materials and meet or exceed applicable ANSI/IEEE Std 495™-1986 standard "Guide for testing Faulted Circuit Indicators". 100% automated production testing verifies the voltage indication.

The electronic components are completely encapsulated to prevent any environmental damage.

**EATON**

Powering Business Worldwide

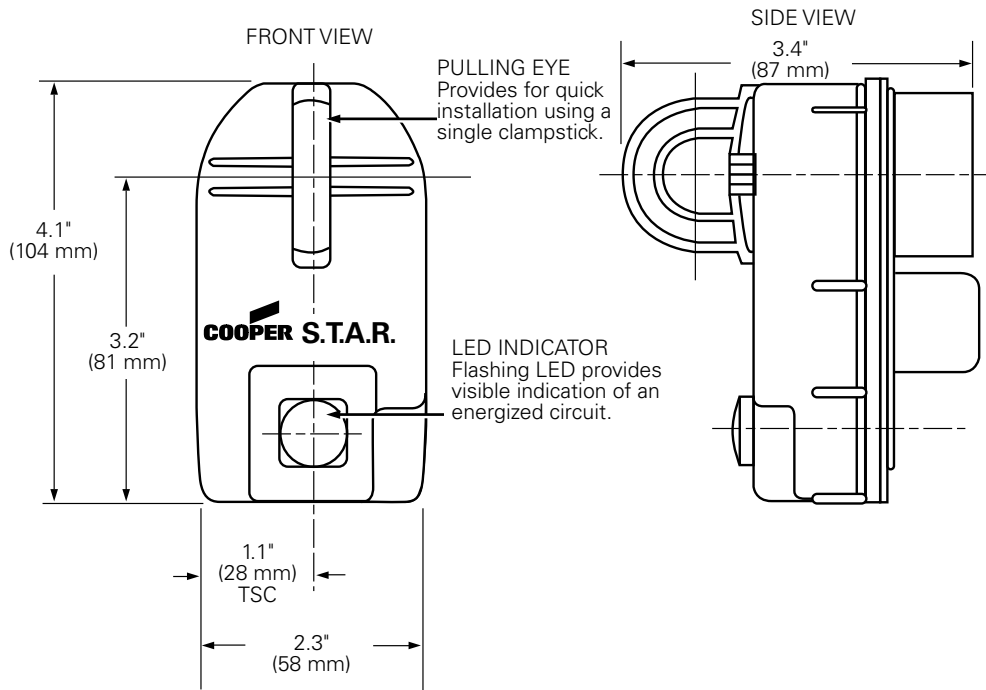


Figure 1. Features and dimensions of a Hot Line voltage indicator.

## Installation

Installation is quick and easy. No special tools are required. The pulling eye of the sensor provides for easy installation on the test point of an energized system using a single clampstick. The hot line voltage indicator easily adapts to most manufacturers' separable connector products. An additional adapter kit may be needed for some manufacturers' older style test points. Please refer to *Service Information S320-80-1 S.T.A.R. Hot Line Voltage Indicator Installation Instructions* for installation details.

Table 1. Electrical Ratings and Characteristics

Description	Ratings and Characteristics
Power Requirements	Min. 2.4 kV L-G
Operating Range	2.4 kV to 19.9 kV L-G
Fault Withstand Capability	25 kA per ANSI/IEEE 495™-1986 standard
Temperature Range	-40 °C to +85 °C
Materials (Conductive EDPM Rubber)	Corrosion resistant & submersible per ANSI/IEEE Std 495™-1986 standard
Weight	8.56 ounces (0.24 kg)
Elbow Rating (All Manufacturers)	200 & 600 A and 15, 25 & 35 kV Class

Table 2. TABLE 2 S.T.A.R. Hot Line Voltage Indicator Ordering Information

**Catalog Number**  
 The Hot Line Voltage Indicator would have a catalog number STHL (as shown below).

**Digits: 1 2 3 4**  
                   **S T H L**

**S.T.A.R. FCI Line**                   ┌───┐  
   ├───┤  
   │   │  
   └───┘

**Indicator Type**                   ┌───┐  
   ├───┤  
   │   │  
   └───┘

Digit 2	Type
T	Test Point

Digits		Description
3	4	
H	L	Hot Line Voltage Indicator

Description	Catalog No.
Adapter Kit for Non-standard Test Points	STAK

**Eaton**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
Eaton.com

**Eaton's Cooper Power Systems Division**  
2300 Badger Drive  
Waukesha, WI 53188  
United States  
Cooperpower.com

© 2015 Eaton  
All Rights Reserved  
Printed in USA  
Publication No. CA320010EN

Eaton, Cooper Power, and S.T.A.R. are valuable trademarks of Eaton in the U.S. and other countries. You are not permitted to use these trademarks without the prior written consent of Eaton.  
IEEE® is a registered trademark of the Institute of Electrical and Electronics Engineers, Inc.  
ANSI® is a registered trademark of the American National Standards Institute.  
Lexan® is a registered trademark of General Electric Company Corporation.

For Eaton's Cooper Power series hot line voltage indicator faulted circuit indicator product information call 1-877-277-4636 or visit:  
[www.cooperpower.com](http://www.cooperpower.com).