

# Fault Indicators

Electrical Apparatus

# 320-80

## S.T.A.R.™ Faulted Circuit Indicators Hot Line Voltage Indicator

### DESCRIPTION

Cooper Power Systems S.T.A.R.™ Hot Line voltage indicators are used to identify an energized circuit by the pulsating of its high intensity LED display. These 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 shotgun stick 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.



**Figure 1.**  
S.T.A.R. Hot Line voltage indicator.

### CONSTRUCTION

The S.T.A.R. Hot Line voltage indicator is a one-piece housing that can be easily installed with a shotgun stick 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 Standard 495-1986 "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.

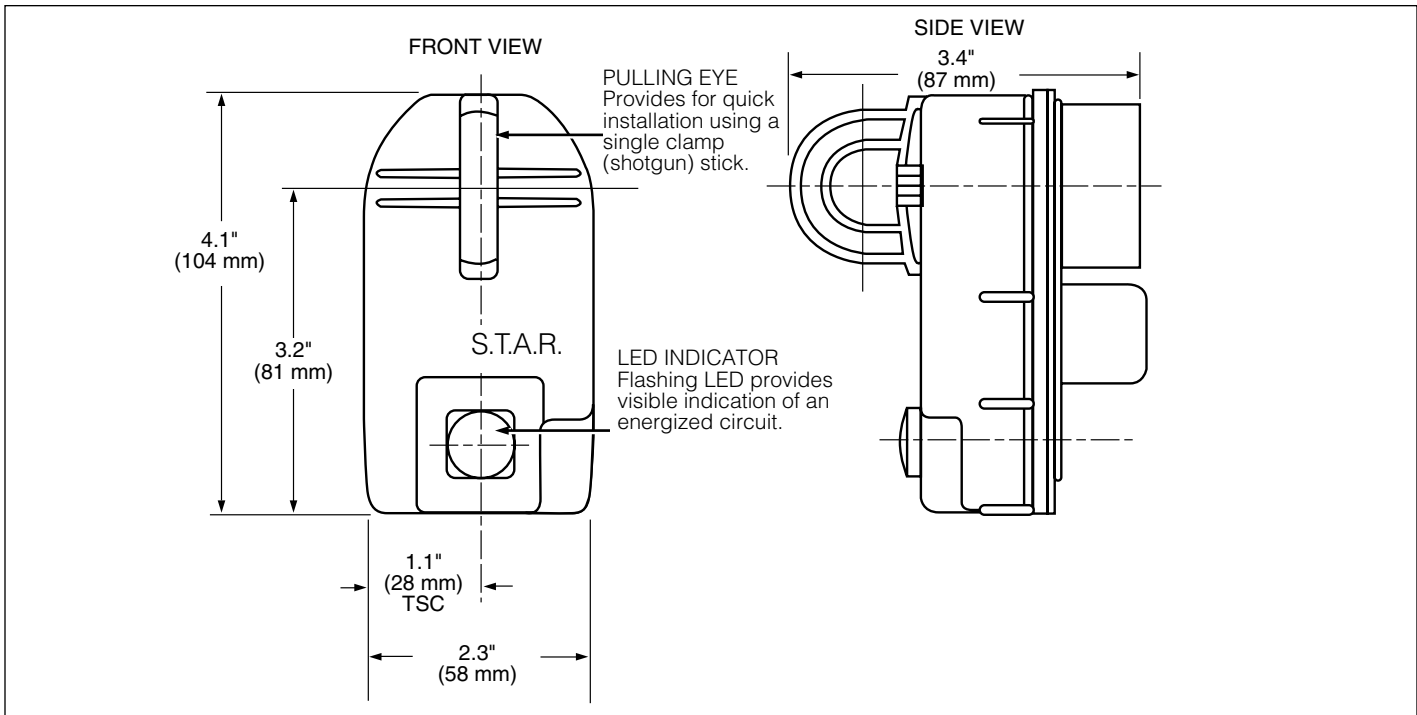
### INSTALLATION

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

clamp (shotgun) stick. 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 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
Temperature Range	-40° C to +85°
Materials	Corrosion resistant & submersible per ANSI/IEEE 495-1986
(Conductive EDPM Rubber)	
Weight	8.56 ounces (0.24 kg)
Elbow Rating (All Manufacturers)	200 & 600 A and 15, 25 & 35 kV Class



**Figure 2.**  
Features and dimensions of a Hot Line voltage indicator.

**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

Digit 3	Digit 4	Description
H	L	Hot Line Voltage Indicator

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

ISO 9001:2000-Certified Quality Management System

