

# Honeywell

# CS, CSP, MCS Current Switches and CR Relays

## PRODUCT DATA

### CURRENT SWITCHES: MCS, CS & CSP

#### Features

##### APPLICATION

- Detecting mechanical failure on fans and pumps
- Monitoring status of industrial processes and critical motors

##### CS SERIES

- Same benefits as CSP current switch with a more-compact package
- Low amperage detection
- Solid core; fixed and adjustable

##### CSP SERIES

- Prior to installation, the current threshold is preset thereby allowing the installer to avoid electrical hazards when adjusting in presence of line voltage
- Lowest installed cost
- No need to return to job site to calibrate
- Save approximately 30 minutes time for each sensor install
- Split core; fixed and adjustable
- Optional command relay

##### MCS SERIES (MINI-ADJUSTABLE)

- Ultra small, fits almost anywhere
- Low amperage detection
- Solid core; adjustable

### CURRENT RELAYS: CR SERIES

A Key Accessory for both current switches and transmitters.

- Designed to be added to the CSP or CTP Series to provide start/stop status in a single device
- Reduces number of installed components
- Simple, integral switch attachment



CSP-NO-A-100A

CS-NO-A-50A

MCS-NO-A-50A



CR SERIES RELAY



31-00453-02

## SPECIFICATIONS

**Table 1. CS/CSP/MCS SERIES CURRENT SWITCHES**

<b>Model Number</b>	<b>Trip Point</b>	<b>Core Type</b>	<b>Max. Current</b>	<b>Application</b>
MCS-NO-A-50A	Adjustable, 0.75-50FLA	Micro-Solid	50A	Standard
CS-NO-F-50A	Fixed, 0.25A	Solid	50A	Standard
CS-NO-A-50A	Adjustable, 0.75-50FLA	Split	50A	Standard
CSP-NO-A-50A	Adjustable, 0.45-50FLA	Split	50A	Standard
CSP-NO-A-100A	Adjustable, 0.50-100FLA	Split	100A	Standard
CSP-NO-A-150A	Adjustable, 0.50-150FLA	Split	150A	Standard
CSP-NO-F-200A	Fixed, 0.35A	Split	200A	Standard
CSP-NO-AVFD-150A	Automatically detected above 40 Hz	Split	150A	VFD Controlled Motor
CSP-NO-AECM-200A	Adjustable, 0.25-3A Trip	Split	200A	ECM - Electronically Commutated Motor

**Table 2. CR SERIES RELAYS**

<b>Model Number</b>	<b>Coil Rating</b>	<b>Contact Type/Rating</b>
CR-24V-NO-10A	24VAC/DC, 15mA nom.	N.O. / 10A @ 125VAC
CR-24V-NC-10A	24VAC/DC, 15mA nom.	N.C. / 10A @ 125VAC
CR-12VDC-NO-10A	9-12VDC, 30mA nom.	N.O. / 10A @ 125VAC
CR-12VDC-NC-10A	9-12VDC, 30mA nom.	N.C. / 10A @ 125VAC

# SPECIFICATIONS

Maximum surrounding air ambient, 60 ° C. For use in Pollution Degree 2 Environment.

## Fixed Current Switches

**Output Type**

NO, solid-state FET

**Output Rating**

1.0A@30VAC/DC Max.

**Temperature Rating**

-15~60 ° C

**Insulation Class**

600V RMS. For use on insulated conductors only!  
Use minimum 75 ° C insulated conductor

**Sensor Power**

Induced

**Frequency Range**

50/60Hz

**Dimensions (LxWxH)**

CSP-NO-F-200A: 2.94" x 2.23" x 0.82"  
CSP-NO-F-200A: 1.4" H with optional relay module  
CS-NO-F-50A: 2.27" x 1.60" x 1.04"

**Sensor Aperture**

CSP-NO-F-200A: 0.75"  
CS-NO-F-50A: 0.52"

## Current Relays

**Contact Rating:** 10A @ 125 VAC (UL C300 RATED)

**Temperature Rating:** -15 to 60 ° C

**Dimensions (LxWxH):** 2.94" x 2.23" x 0.82" (1.4" H with optional relay module)

Maximum surrounding air ambient, 60 ° C.  
For use in Pollution Degree 2 Environment.

## Adjustable Current Switches

**Turn-on Amperage CSP-NO-AVFD-150A**

1A(30Hz min), 1.5A(20Hz min), 2.5A(10Hz min)

**Output Type**

NO, solid-state FET

**Temperature Rating**

-15~60 ° C

**Insulation Class**

600V RMS. For use on insulated conductors only!  
Use minimum 75 ° C insulated conductor

**Sensor Power**

Induced

**Frequency Range**

50/60Hz  
CSP-NO-AVFD-150A: 10 -120Hz; proof of flow loss alarm at 40Hz+

**Dimensions (LxWxH)**

MCS-NO-A-50A: 1.78" x 1.32" x 0.66"  
CS-NO-A-50A: 2.27" x 1.61" x 0.69"  
\*CSP-NO-A-xxxA / \*CSP-NO-AECM-200A:  
2.94" x 2.23" x 0.82"  
\*CSP-NO-AVFD-150A: 2.51" x 2.23" x 0.82"  
\*1.4" H with optional relay module

**Sensor Aperture**

MCS-NO-A-50A: 0.3"  
CS-NO-A-50A: 0.5"  
CSP-NO-A-xxxA / CSP-NO-AECM-200A / CSP-NO-AVFD-150A: 0.75"

\* Amperage minimum is frequency dependent, see Turn-On Amperage



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