

# Specialty Control Devices

## Limit Switches

### CR115A

#### Magnet-Operated Limit Switches

##### Application

CR115A provides accurate position detection of objects at distances up to 4 1/8 inches without physical contact. The switch is actuated by passage of a magnet near the face of the switch. This action causes the normally open contact to close and remain closed until the magnet is removed.

Magnet-operated limit switches are well-suited for controlling objects having an erratic motion such as skip hoists, elevators, and overhead conveyors.

##### Features

- Encapsulated unit: all enclosures meet NEMA Type 13 oiltight and dust-tight requirements. Several forms are also UL listed for Types 3, 3R, 4, 4X, 12 and 13 environments; and for Division 2 hazardous locations-Type 7 (Class I, Groups A, B, C and D) and Type 9 (Class II, Groups E, F and G).
- Flexible: magnetic operation permits wide mounting flexibility.
- Long life: detects high-speed object travel without wear or breakage and life unaffected by chips.
- Accurate: short response time assures high repetitive accuracy.
- Versatile: may be mounted with switch or magnet or both in a fixed position.
- Suitable for use in ambient temperatures to 75°C.

##### Operating Characteristics

#### CR115A22; CR115A23; CR115A59; CR115A61; CR115A62

- Response Time: 1.75 milliseconds.
- Repetitive Accuracy: (Path of operating magnet fixed at an angle to switch.) With CR115X20 (5/8-inch dia.) operating magnet  $\pm 0.003$ -inch. With CR115X2 (1 5/16-inch dia.) operating magnet  $\pm 0.007$ -inch.
- Operating Differential: (Path of operating magnet fixed at an angle to switch.) With CR115X20 (5/8-inch dia.) operating magnet 3/8-inch maximum. With CR115X2 (1 5/16-inch dia.) operating magnet 1-inch maximum.

#### CR115A19; CR115A24

- Response Time: 1 millisecond.
- Repetitive Accuracy: (Path of operating magnet fixed at an angle to switch.) With CR115X20 (5/8-inch dia.) operating magnet  $\pm 0.003$ -inch. With CR115X2 (1 5/16-inch dia.) operating magnet  $\pm 0.007$ -inch.
- Operating Differential: (Path of operating magnet fixed at an angle to switch.) With CR115X20 (5/8-inch dia.) operating magnet 3/8-inch maximum. With CR115X2 (1 5/16-inch dia.) operating magnet 5/8-inch maximum.



CR115A Magnet-Operated Limit switch (end hub form)



CR115X20 Magnet



CR115X2 Magnet



CR115A Magnet-Operated Limit Switch (back hub form)

##### Product Number Selection Instructions

1. For CR115A, order by complete Product Number both for switch and magnet.  
Example: CR115A19 at \$165.00, GO-10G6 and CR115X20 at \$73.00, GO-10G6.

##### Reference Publications

Instructions	
Product Number CR115	Publication Number
A19	GEH-2445
A22, A23, A62, A72	GEH-5157

