

# REFLX<sup>®</sup> COLLISION AVOIDANCE SYSTEMS

*ReFlx 120 and ReFlx 120 "Plus"*

Magnetek's ReFlx<sup>®</sup> 120 and ReFlx 120 "Plus" Distance Detection and Collision Avoidance Systems enhance the performance of your overhead material handling system by preventing crane to crane or crane to object collisions. Avoiding collisions means reduced maintenance costs and increased operator safety. ReFlx Systems are ideal for use with all types of cranes with either adjustable frequency drives or stepped controls.

ReFlx features a reliable, solid-state control board in a small, easy to install enclosure. It can be used as a stand-alone unit, or may be removed from its enclosure and mounted as one piece on an existing control panel.

Magnetek offers two types of ReFlx Collision Avoidance Systems.

## REFLX 120

The ReFlx 120 System features a two-channel infrared sensor, which can be adjusted to give separate outputs for each channel at distances from 20 to 120 feet. The most commonly wired configuration is the use of one channel to provide the primary stop command to the motion control, while the second channel is used as a redundant stop command.

The system includes:

- Two-Channel Sensor
- Controller
- Diamond Reflective Target (2 feet x 2 feet)

## REFLX 120 "PLUS"

To provide an extra measure of safety to your collision avoidance system, the ReFlx 120 "Plus" includes the addition of a second, shorter range, sensor. The first sensor, which has two channels, is most commonly wired to use the first channel as a "slow down" command or warning signal, and the second channel as a primary stop command. The second sensor has a single channel, with a range of 1.5 to 20 feet, and is most commonly used as a redundant stop command. The second sensor does not require a reflective target to be utilized.

The system includes:

- Two-Channel Sensor
- Single-Channel Sensor
- Controller
- Diamond Reflective Target (2 feet x 2 feet)

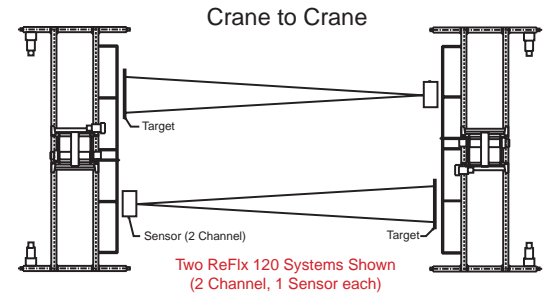
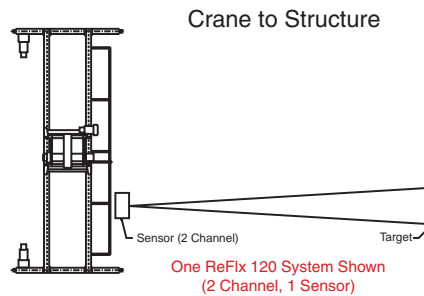
Magnetek's ReFlx 120 and 120 "Plus" Systems keep your overhead material handling system up and running safely by providing the ideal solution for collision avoidance.



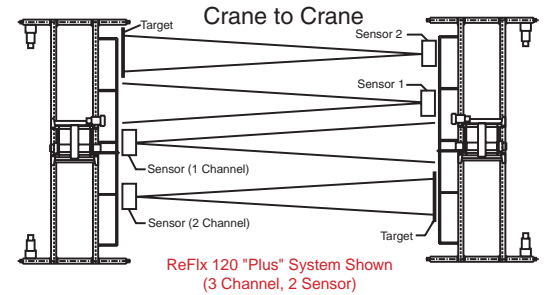
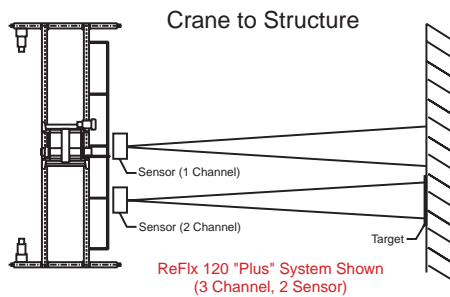
## REFLX SYSTEM

The ReFlx sensors consist of a transmitter and receiver(s). The infrared signal is transmitted at the target or object. The reflected signal from the target or object is sensed by the receiver. The information is processed and the relay opens, providing a slow down or stop of the bridge control.

## REFLX 120



## REFLX 120 PLUS



## COMPONENT SPECIFICATIONS

### TWO-CHANNEL SENSOR

Maximum Sensing Distance — 120 ft.  
Minimum Sensing Distance — 20 ft.  
IP65 Rated Enclosure — NEMA 12, 13  
Fully adjustable scanning range  
Status LEDs for each channel  
16 ft. sensor cable

### SINGLE-CHANNEL SENSOR

Maximum Sensing Distance — 20 ft.  
Minimum Sensing Distance — 1.5 ft.  
IP65 Rated Enclosure — NEMA 12, 13  
Fully adjustable scanning range  
Status LED for sensor  
16 ft. sensor cable

### CONTROLLER

Enclosure — NEMA 12, 13  
Dimensions — 8"H x 6"W x 3.5"

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