

Description

The Safedge controllers are designed to operate with the Safedge profiles. The controller continuously monitors the profile for actuation and generates an output signal when the profile is depressed.

The Safedge controller provides a low voltage to the profile. When the profile is pressed, the controller detects a change in resistance and turns off its output relays. When pressure is released from the profile, the output relays of the controller return to an on state. The controller has redundant voltage free positively-guided output relays which can be used to interface with a machine control system.

The '251' controller comes capable of operating at 24V AC/DC, or 120/230V AC from separate terminals. An internal switch changes the operating voltage from 120V AC to 230V AC. The '252' controller operates at 24V AC/DC.

An auxiliary output relay is available to provide a signal about the controller's status. Three LEDs indicate whether the controller is in RUN, STOP or OPEN condition. The controller operates in manual or automatic reset mode.

Features

- 1 N.O. or 2 N.O. Safety Outputs
- 1 N.C. Auxiliary Output
- 24V AC/DC or 120/240V AC
- · Output Monitoring
- LED Indicators for RUN, STOP and OPEN
- · Automatic/Manual Reset

Specifications

Standards			
Approvals	Standards		
CULus, TuV	Safety Category	Cat. 3 per EN954-1	
252	Approvals		
Sees			
251P 2 x 2A Safety Output, Replaceable 500mA, Resettable Fuses, External 4A on AC, 2A on DC Safety Input Profile 6KΩ 12V DC open circuit, 4V DC run condition Monitoring 1 N.O. Maximum Input Impedance Profile 9KΩ Monitoring Circuit 1KΩ Outputs 251 Safety 2 N.O. 252 Safety 1 N.O. 251, 252 Auxiliary 1 N.C. Output Rating 2A/250V AC, 2A/125V AC 1A/30V DC 1 N.C. Min. Switching Current/Volt. 10mA/10V Max. Response Time 13ms Indication LEDs Green = Run Yellow = Open Circuit Red = Stop Impulse Withstand Voltage 2500V Installation Group C in accordance with VDE0110 Pollution Degree 3 Operating Temperature -10°C to 55°C (-14°F to 131°F) Humidity 90% RH Enclosure Protection 1P40 (NEMA 1) 251P 1P65 (NEMA 13) Terminal Protection 1P20 DIN 0470 Max Conductor Size 251D, 252D 1 x 4mm² (10 AWG) solid <			
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$ \begin{array}{c} \text{Monitoring} & 1 \text{ N.O.} \\ \\ \text{Maximum Input Impedance} \\ \text{Profile} & 9KΩ \\ \\ \text{Monitoring Circuit} & 1KΩ \\ \\ \text{Outputs 251 Safety} & 2 \text{ N.O.} \\ 252 \text{ Safety} & 1 \text{ N.O.} \\ 251, 252 \text{ Auxiliary} & 1 \text{ N.C.} \\ \\ \text{Output Rating} & 2A/250V \text{ AC, } 2A/125V \text{ AC} \\ 1A/30V \text{ DC} \\ \\ \text{Min. Switching Current/Volt.} & 10mA/10V \\ \\ \text{Max. Response Time} & 13ms \\ \\ \text{Indication LEDs} & Green = Run \\ Yellow = \text{Open Circuit} \\ Red = \text{Stop} \\ \\ \text{Impulse Withstand Voltage} & 2500V \\ \\ \text{Installation Group} & C \text{ in accordance with VDE0110} \\ \\ \text{Pollution Degree} & 3 \\ \\ \text{Operating Temperature} & -10^{\circ}\text{C to } 55^{\circ}\text{C } (-14^{\circ}\text{F to } 131^{\circ}\text{F}) \\ \\ \text{Humidity} & 90\% \text{ RH} \\ \\ \text{Enclosure Protection} & 1P40 \text{ (NEMA 1)} \\ 251\text{ P} & 1P65 \text{ (NEMA 13)} \\ \\ \text{Terminal Protection} & 1P20 \text{ DIN } 0470 \\ \\ \text{Max Conductor Size} & 251\text{ D, } 252\text{ D} & 1 \times 4\text{mm}^2 \text{ (10AWG) stranded} \\ 1 \times 4\text{mm}^2 \text{ (10 AWG) solid} \\ 251\text{ P} & 1 \times 1.1\text{mm}^2 \text{ (18AWG) stranded} \\ 1 \times 1.5\text{mm}^2 \text{ (16AWG) solid} \\ \\ \text{Case Material} & \text{Polycarbonate} \\ \\ \text{Weight 252D} & 181g \text{ (0.4lbs)} \\ 251\text{ D} & 450g \text{ (1.0lbs)} \\ 251\text{ P} & 650g \text{ (1.4lbs)} \\ \\ \text{Vibration} & 0.15\text{mm } 10\text{-}55\text{Hz} \\ \\ \\ \text{Vibration} & 0.15\text{mm } 10\text{-}55\text{Hz} \\ \\ \end{aligned}$	Safety Input Profile	· ·	
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Vibration 0.15mm 10-55Hz			
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Presence Sensing Safety Devices

Safety Edges Safedge™ Controllers

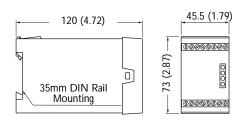
Product Selection

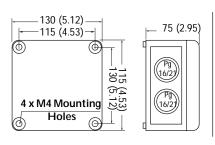
Housing Type	Description	Catalogue Number
	35mm DIN Rail Mountable	440F-C251D
		440F-C252D
	Surface Mountable	440F-C251P

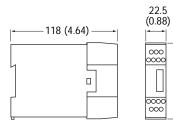
Approximate Dimensions—mm (inches)

Dimensions are not intended to be used for installation purposes.

440F-C251D 440F-C251P 440F-C252D

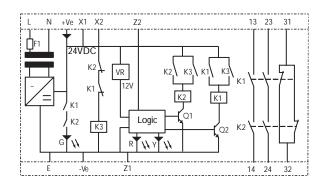






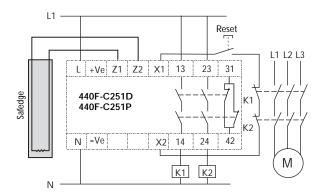
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Block Diagram

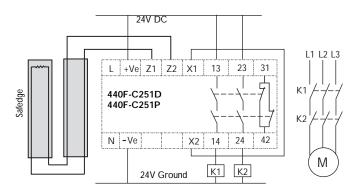




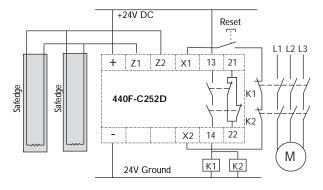
Typical Wiring Diagrams



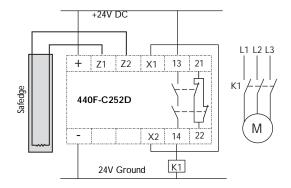
Series Terminated, Safedge Input, Manual Reset, Dual Channel Output, Monitored Output



Series Terminated, Cascaded, Safedge Input, Automatic Reset, Dual Channel Output, No Output Monitored



Parallel Terminated, Safedge Input, Manual Reset, Dual Channel Output, Monitored Output



Series Terminated, Safedge Input, Automatic Reset, Single Channel Output, No Output Monitored

Accessories

Description	Page	Catalogue Number
Fuse, 500mA	14-6	440R-A31562
Fuse, 2A	14-2	440A-A09197

2-105