

## C6 Multifunction Safety Controller

The **C6 Multifunction Safety Controller** acts as an interface between various Tapeswitch sensing devices and a machine or process control. It is designed to monitor up to six zones consisting of 1 to 3 B-Series Light Curtains and/or 1 to 6 other sensing devices. The C6 safety controller provides power to all connected B-Series Light Curtain emitters and receivers and monitors the output signals. In addition to the light curtains, the C6 safety controller interfaces with various pressure-sensitive, normally-open switches made by Tapeswitch including ribbon switches, sensing edges/bumpers, and switching mats.



### Features & Benefits

- Controls up to 6 safety zones from one location
- Detects sensor, cabling or internal faults
- Automatic or manual reset or combination
- Visual status display of all zones
- Compatible with Tapeswitch sensing products

The C6 safety controller incorporates built-in fault protection. It automatically detects an open or short within the sensor or its connecting cable and can also detect internal failures.

The C6 safety controller is a fully self-contained unit housed in a rugged metal enclosure. It is designed to be wall mounted and has six knockouts that accept standard ½' or ¾" conduit. It will accept an input power source range of 85 to 264 Vac at an input frequency range of 47 to 63 Hz. The unit will also accept a regulated 24 Vdc supply.

### Technical Specifications for C6 Safety Controller

[See Manual](#)

Supply Voltage	110/240 Vac 50/60 Hz or 24 Vdc
Power Consumption	30 VA typical
Enclosure Type	Metal wall mount
Protection Rating	NEMA 1/IP10 (Standard), NEMA 12/IP52 (Optional)
Weight	9.5 lb (4.3 kg)
Reset Mode	Automatic, manual, or combination
Output Relays	Force guided safety relays 6.0 A @ 240 Vac, resistive load
Monitor Output	Non-safety 6X (N/O or N/C) 10 A @ 240 Vac, resistive load
Operating Temperature	32 to 122 °F (0 to 50 °C)
Response Time	10 ms