

GuardPLC 1200 Packaged Safety Controller

1754-L28BBB



The GuardPLC 1200 is a safety-related compact Programmable Electronic System (PES), which is designed in accordance with IEC 61131. Despite its small size, it complies with the requirements for a control system with the safety integrity level (SIL 3) according IEC 61508.

The GuardPLC 1200 is designed for smaller applications that require functional safety and that can be serviced with a fixed number of I/O points. The compact size of the GuardPLC 1200 combined with DIN rail mounting allows deployment even under cramped space conditions.

The GuardPLC 1200 includes a power supply, CPU, Watchdog, 20 digital inputs, 8 digital outputs plus 2 counters and communication ports, all incorporated in a rugged plastic housing.

Typical Applications

- Perimeter guarding for Robot/weld cells
- Perimeter guarding for Packaging Machines
- Entertainment industry (ride control and ski lift control)
- Burner Management
- Press Controls

Features

- Rugged plastic housing
- DIN rail mounting
- I/O self test
- 30 I/O points
- 24V digital I/O
- Multiple I/O test points
- Certified by TÜV for use in applications to SIL 3 according to IEC 61508; EN 954-1, Category 4
- Programmed with RSLogix Guard Software
- RS-232 port for ASCII communication (read only)
- Ethernet port for programming, configuration and Peer-to-Peer

Specifications

Number of safety-related digital inputs	20 (not electrically isolated)
Nominal Input Voltage	24V DC
On-State Voltage	10-30V DC
On-State Current	2mA @ 10V DC, 13mA @ 30V DC
Off-State Voltage	5V DC (maximum)
Off-State Current	1.5mA per channel (maximum) 4mA per channel (minimum)
Number of safety-related digital outputs	8 (not electrically isolated)
Output Voltage Range	18.4 to 26.8 V DC
Output Current	Channels 1 through 6: 0.5A per channel Channels 7 & 8: 2A per channel
Number of safety-related counters	2
Inputs per counter	3 (Input A, Direction, Gate/Reset)
Counter Resolution	24 Bit
Input Frequency	100 kHz (maximum) in counter modes
Power Supply Voltage	24V DC(20 / -15%), ≤ 15% ripple
Power Rating	8A (maximum)
Ambient Temperature (Operating)	0°C to 60°C (32°F to 140°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Operating Humidity	5 to 95% (without condensation)
Shock	Operating: 30g non operating: 50g
Vibration	Operating: 2g @ 10 to 500Hz
Dimensions (WxHxD)	90 x 160 x 87mm (3.54 x 6.29 x 3.42in)
Weight	0.68 kg