



Catalog #: 1768-L45S

Compact GuardLogix CPU L45S 3M/1M

Lifecycle status: DISCONTINUED

Rockwell Automation announces that as of October 30, 2020, the Compact GuardLogix CPU L45S 3M/1M will be discontinued and no longer available for sale. Customers are encouraged to remove references to the affected product(s).

Discontinued Date: October 30, 2020

Replacement Category: Engineering Replacement

Technical Specifications

Electrical

Voltage type	DC
LED indicator inputs	No
LED indicator outputs	No
Number of 1768 modules, max	4
Number of 1768 motion modules, max	4
Number of I/O banks, max	3
Number of 1769 I/O modules, max	30
Power dissipation	9.5 W
Slot width	1.5
Power consumption	50.4 W
1768 current draw	5.6 A @ 5V DC
Total 1768 and 1769 current draw	7.6 A @ 5V DC
Backplane current draw	2.1 A @ 24V DC
Available user memory	3 MB standard, 1 MB safety
Programming languages	Standard task: all languages, Safety task: relay ladder, safety application instructions
Protection for local controls	No

Failsafe model	No
Communication medium fibre optic	No
Communication medium wireless	No
Expandable	Yes
Standard applications available	Yes
Communication medium copper	Yes
Communications protocol	Other
Communication bus	RS-232
Number of 1768 communication modules, max	2
Power supply distance rating	4 modules
1769 current draw	2.0 A @ 5V DC
Power supply	1768-PA3, 1768-PB3
Wire category	2 - on communication ports
Module expansion capacity	Two 1768 modules, Sixteen 1769 modules
Serial cable	1756-CP3 or 1747-CP3, right angle connector to controller, straight to serial port, 3 m
Isolation voltage	30V (continuous), functional insulation type, Type tested at 500V AC for 60 s, RS-232 to system

Mechanical

DIN-rail mounting	Yes
Weight, approx	0.45 kg
With display	No
With PC connection	Yes
Module location	DIN rail or panel mount
Communication ports	RS-232, Fully isolated, 38.4 Kbps max
Panel-mounting screw torque	1.16 Nm (10 lb.in.) - use M4 or #8 screws

Construction

Width	89.6 mm
Height	131.6 mm
Depth	122.1 mm
With base plate	No
Suitable for front mounting	Yes

Enclosure type rating	None (open-style)
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Environmental

Shock	Operating: 30 G
Surrounding air temperature, max	60 °C
Operating temperature	0 °C
Storage temperature	-40 °C
Vibration	5 G @ 10...500 Hz
Relative humidity	5...95% noncondensing
Emissions	CISPR 11 (IEC 61000-6-4)
EFT/B immunity	±4 kV at 5 kHz on communication ports
ESD immunity	6 kV contact discharges, 8 kV air discharges
Surge transient immunity	±2 kV line-earth (CM) on communication ports
Conducted RF immunity	10V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz
Radiated RF immunity	10 V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz, 10 V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz, 10 V/m with 200 Hz 50% Pulse 100% AM @ 1890 MHz, 3 V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz

Certification

Explosion-proof	No
North American temperature code	T4
IEC temperature code	T4



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