



**30V to 10V & 5V Convertors
for Laser Modules Datasheet**

Product Overview

Global Laser's 24 volt in-line adaptors provides a compact reliable solution which allows a wide range of laser modules to be powered from an industry standard 24Vdc supply. The solid state technology design transforms unregulated DC voltage in the range of 6/10 to 30 Vdc generally found in industrial machines to a regulated 5/10Vdc supply suitable for the reliable operation of laser diode modules.

The in-line design keeps any heat generated isolated from the laser diode module, thus ensuring reliability and maintaining laser diode lifetime. The compact 14mm diameter aluminium housing is voltage potential free, but allows good thermal contact for heat dissipation. Reverse polarity protection is also provided.

Specification

	30 to 5Vdc Convertor	30 to 10Vdc Convertor
Part Number		
RS Part Number	RS1271574	TBC
Global Laser Part Number	5028-14-000	5028-16-000
Mechanical Specification		
Mass (grams)	20	
Dissensions (mm)	Ø14 x 48	
Housing	Anodised Aluminium	
Isolated Body	Yes	
Lead Length (mm)	500	
Connector Type	2.5mm Female DC Jack	
Environmental Specification		
Operating Case Temperature (°C)	-10 to +50 *	
Storage Temperature (°C)	-10 to +80	
Operating Humidity (%RH)	90 non condensing	
Electrical Specification		
Input Voltage Range (Vdc)	6 to 30	10 to 30
Maximum Current (mA)	≤ 00	
Operating Drive Circuit Current (mA)	2 (Typical)	
Reverse-Polarity Protection	Yes	
NOTES * = The case temperature range should be kept within specification at all time. Failure to do so will result in the converter shutting down. All specifications are typical @ 25°C		

Compatibility

The 5-30 Volt in-line adaptor is compatible with the following lasers available through RS Components.

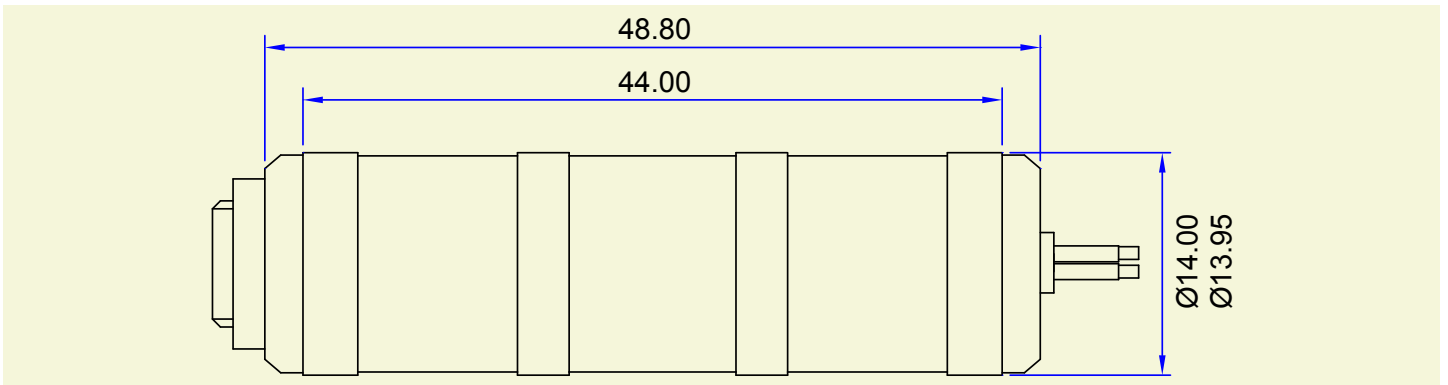
RS Part Number	Global Laser Part Number	Description
RS697-3522	1950-01-000	Green Laser Alignment Kit - Class 3R
RS1271566	1950-03-000	Green Laser Alignment Kit - Class 2
RS1271572	3117-12-000	LaserLyte-Flex 635nm 1mW Dot
RS697-3557	3117-10-000	LaserLyte Flex 635nm 5mW Dot
RS1271571	3117-11-000	LaserLyte-Flex 635nm 10mW Dot
RS697-3519	1952-01-000	Laser Machine Vision Development Kit
RS697-3513	1951-01-000	Red Laser Alignment Kit
RS488-1421	5710-03-000	GreenLyte Alignment Laser
RS442-3390	5200-58-000	V3RXL Bright Cross axis
RS442-3384	5200-57-000	V3LL+D Bright line dot
RS442-3340	5200-56-000	V3VLL Bright var. line
RS442-3334	5200-50-000	V5D Standard Dot
RS1271568	1956-01-000	Gated Cameo Laser Development Kit

The 10-30 Volt in-line adaptor is compatible with the following lasers available through RS Components.

RS Part Number	Global Laser Part Number	Description
TBC	3118-03-000	LaserLyte-Flex 515 1mW Dot
TBC	3118-04-000	LaserLyte-Flex 515 5mW Dot
TBC	3118-05-000	LaserLyte-Flex 515 10mW Dot
TBC	5210-09-000	Green 10mW Laser Variable Line Length
TBC	5210-10-000	Green 10mW Laser Rotating Cross Lines
TBC	5210-11-000	Green 10mW Laser Dot
TBC	5210-12-000	Green 10mW Laser Variable Line Length & Dot

Mechanical Dimensions

30V to 5/10V Convertor DC and Flying Leads Outline



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Please Note: Global Laser reserve the right to change descriptions and specifications without notice.

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