



Shunt Isolator

Specifications

Input from LKP current measurement system: Isolator input (voltage out from LKP)

LKP System LKP - 6,12 LKP -15, 30, 45, 60 LKP80 - 500

Current Output:

Minimum signal span Load (max) Load stability

Voltage output (through internal shunt):

Signal range (with 0-20mA) (with 4-20mA)

General Specifications:

Isolation, test / operation Primary output Secondary output

Observed authority requirements - Standard:

EN 50082-2 EN 61010-1

9.7 oz. / 275 g

DIN Rail

IP 50

At calibration point, under reference conditions Specifications subject to change without notice

Ordering Information

Please specify:

- 1. Standard Model SI-2284, item number 42315 Isolator with Buffered Voltage output, item number 045359
- 2. Requires completed Isolator Worksheet BEN061 Input voltage range Primary and secondary output range
 - Mains input voltage

LKP-OEM Signal range Current limit

Minimum Signal Span Load (min) Load with buffer (min)

Max. consumption

Physical:

LVD 73/23/EEC

Weight

EMC 89/336/EEC, Emission

EN 500081-1 Immunity

IEC 364-4-41 and EN 6

3.17 x 1.39 x 4.33 Inches

80.5 x 35.5 x 110 mm

0...1V or 0...10V 0.2...1V or 2...10V 200mV $1M \Omega$ 2000 Ω 3.75 kVAC / 250 VAC

100 mV / kA

Requires optional shunt (Refer to LKP-OEM data sheet)

> 20 mA / 1000 Ω <± 0.01% FS/100 Ω

0 ... 20 mA

4mA

23 mA

10 mV / kA

1 mV / kA

<u>+</u> 0.1%* <u>+</u> 1.0%* <± 0.1% FS +0.01% -20 to +60 °C (-4 to +140 °F) <± 0.01% FS/°C min. 60 dB <± 0.005% FS / %V <± 0,5% FS <25 ms 0 ... 90% RH (non-condensing) 115 / 230 VAČ 50 ... 60 Hz 4 W (24/115/230VAC)

Accuracy

Linearity error Repeatability error Temperature Range Temperature coefficient Signal/noise ratio Effect of supply voltage change EMC-immunity influence Response time (0 ...90%) Relative humidity Mains voltage Frequency

Dimensions

Mounting Enclosure rating

PELV/SELV

Application

installation.

Description

appropriate CE standards.

The SI-2284 Signal Isolator provides a separately scaled output for the current measurement system that has galvanic separation of the analog signals. This eliminates signal ground loops and provides a low current loop signal path for transmission to remote locations through electrically noisy environments.

The SI-2284 Signal Isolator provides an isolated

The voltage input range has been set to match

voltage and current output proportional to the input

voltage signal from a DynAmp LKP High Current

Measuring System. Gain and zero offsets are set by

microprocessor and the design conforms to

the voltage output from the LKP measuring system.

The unit provides a primary and secondary output that

can be specified for standard or special currents and

voltages within the signal range. The standard primary

0...20mA current output is available with a

simultaneous secondary voltage output of 0...1V or

0...10V. The standard primary 4-20mA current output

is available with a simultaneous secondary voltage

output of 0.2...1V or 2...10V. A mating socket and

mounting clip are included with the isolator for fast