RECHNER SENSORS

Rechner Electronics Industries, Inc.

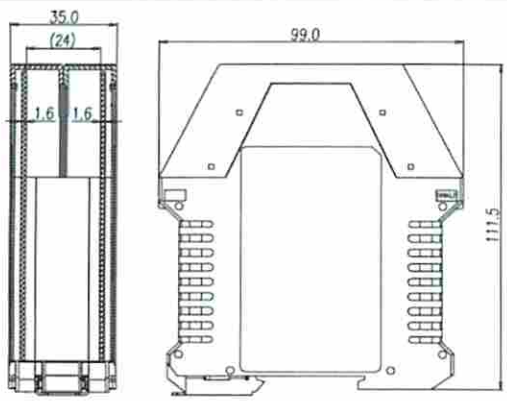
EGI-RLC - Rechner Logic Controller
Power Supply, Logic, Relay Output

- Connect one 2, 3, or 4-wire sensor with NPN or PNP output. When connecting an antivalent sensor (4-wire), either ouput can be connected.
- One relay output (SPDT)

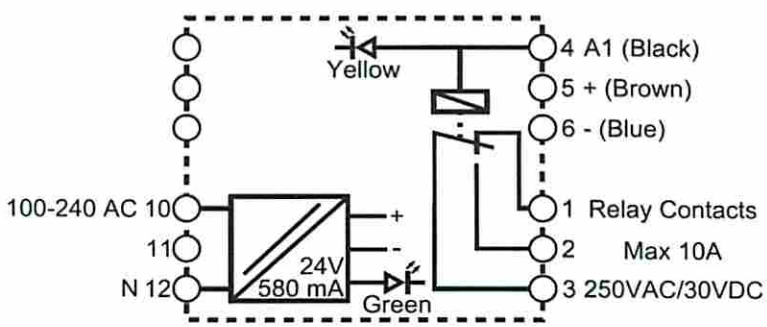
Certificates: **ETL Recognized** **RoHS** CE

Technical Data

Type	**EGI-RLC**
Article Number	**NA7001**
Connection Diagram	**see below**
Operating Voltage (U_b)	100 to 240 VAC 50/60 Hz
Output Voltage (U_s)	24 VDC
Output Current (Max) (I_s)	580 mA
No-load Current (I_b)	typ. < 50mA
Output Function	1 x relay output (SPDT)
Relay Contact (Max)	250 VAC / 30 VDC 10 A
Actuating Signal (Input Signal)	PNP or NPN
Permitted Ambient Temperature	-25 ... + 40 °C
IP Rating	IP20 terminals / IP30 housing
Connection	screw terminals



Wiring Diagram



All Specifications are subject to change without notice (September 2014)

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TRASK INSTRUMENTATION, INC.

Your Sensor Solution Source

DC Proximity and Photoeye Accessories

Python AC/DC Power Supply Output Converter for Any NPN or PNP DC Sensor

A cost-effective power and output conversion accessory for DC sensors...

Python Power is an accessory that allows a DC sensor to be installed in locations where only AC power is available or to simply maximize installation efficiency.

Python consists of a universal, in-line AC/DC power supply and TRIAC switch. The integral TRIAC output switch is controlled by the sensor's low-voltage output, automatically detecting a sinking or sourcing output. The TRIAC is then actuated.

The DC output will power most types of sensors, allowing users to take advantage of the advanced features available in DC sensors that are not available in AC sensors. Unlike other products, Python has a sleek design and can be pulled through and stored in a 1-inch straight conduit.

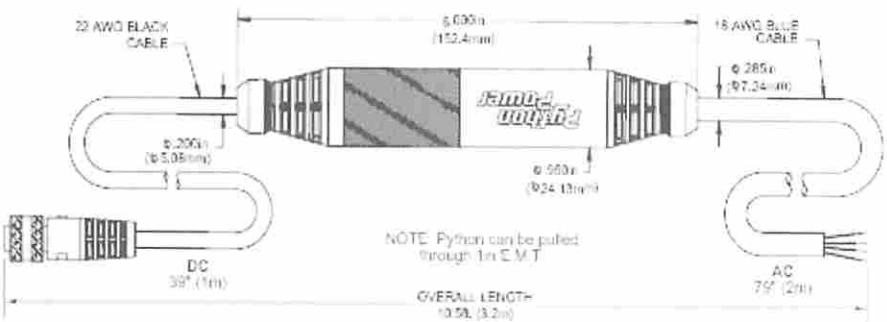
Python is a powerful performer and an ideal converter for retro-fit installations.

Accepting universal AC input voltages from 85VAC to 265VAC, the encapsulated housing and integral cables are resistant to most acids, bases, and food and beverage.

Python is UL listed to UL61010C-1 and CE certified to EN61010C-1. Python's IP67 enclosure rating ensures it will withstand washdown environments.

Python supports many sensing applications where DC power is unavailable. Because of this versatility, it is a solid candidate for almost every application in an AC environment. Python is an ideal converter for retro-fit installations and a cost-effective, time-saving solution for new installations. Python accommodates all Hyde Park DC-powered sensors, as well as most other brands. Python can be used with most any sensing technology, including ultrasonic, photoelectric, and inductive proximity.

- *Self-contained AC/DC power converter*
- *Integral isolated TRIAC output*
- *Sleek design*
- *Stored in or pulled through a 1" straight conduit*
- *IP67 enclosure rating*
- *CE certified*



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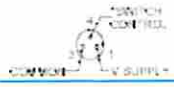
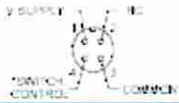
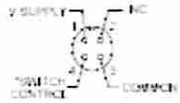
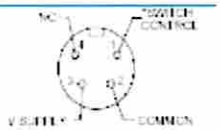
Model Reference Guide - Python Power

Model	Connector	Female Contacts	Pinout, sensor connector
PM100-00	M8	3	
PM100-01	M8	4	
PM100-02	M12	4	
PM100-03	M12 Green LED - Power Amber LED - Output (sink)	4	
PM100-04	Mini (7/8-11 thread)	4	
PM100-10	No connector	n/a	

General Specifications

AC Power Requirements

Supply Voltage:
85VAC to 265VAC, 50/60Hz
Current Consumption:
35 mA max.
Power Consumption:
4 VA max.
Installation category: II (IEC 60364-4-443)
Input fusing: non-replaceable, non-repairable

DC Output Ratings (to sensor)

Output voltage:
Minimum at rated current: 15VDC
Maximum at no load: 20VDC
Regulation: 40 V/A
Current, max. rated: 100mA
Current fault, max.: 200 mA
Pri/sec. isolation: 2200VAC, 1 min.
Turn-on delay, 100mA load: 90% final voltage: 10ms typical
Turn-off delay: 0mA load, 10% full voltage: 1s typical

Peak repetitive surge current: 1 A (100µs, 120pps)
On-state voltage: 3v max. @ 100 mA
Off-state leakage: 500nA max.
Holding current: 250µA typical
Critical rate of rise of off-state voltage: 600v/us min.
Isolation surge voltage: 7500VAC min., 60Hz, 1 sec.
Turn-on time, full load, max voltage: 15ms max. (zero-crossing)
Turn-off time, full load, max voltage: 15ms max. (zero-crossing)
Over-current protection: internal fuse (non-replaceable, non-repairable)

Environmental

Operating Temperature Range:
-25° to 60°C (-13° to 140°F)
Storage Temperature Range:
-40° to 85°C (-40° to 185°F)
Operating Humidity: 100%, non-condensing
Protection Ratings: Type 1 (UL50), IP67

Agency Approvals

CE Mark: CE conformity is declared to:
EN55011:1998 Group 1, Class A
EN61010C-1
EMC: EN61326:1997 Measur., Lab., and Control
FCC Class A (USA)
UL61010C-1 "Industrial Control Equipment"
File#E239344
FDA: Cables and over-mold are FDA compatible non-contact
Declaration of Conformity available upon request

Construction

Dimensions: (length x diameter)
152 mm (6.0 in) x 24 mm (0.95 in)
AC cable: 4-wire, 18AWG, 300V PVC,
2 m (79.0 in) x 7 mm (0.28 in) dia.
DC cable: 4-wire, 22AWG, 300V PVC
1 m (39.0 in) x 5.2 mm (0.21 in) dia.
Material: PVC
Input fusing: non-replaceable, non-repairable

TRIAC Switch Ratings (switch AC current only)

Features: optically isolated, zero-crossing
Switch voltage, maximum: 230VAC
Switch Current, maximum: 50mA@230VAC, 100mA@120VAC
Isolated from AC line

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