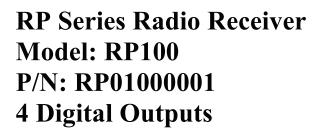


Shipping: 2332 S 25th St (Zip 68105) Mailing: P.O. Box #6069 (Zip 68106) Omaha NE

Phone: (402) 344.4434

Fax: (402) 341.5419 www.BRAND-HYD.COM





FEATURES:

- Engineered and manufactured in the USA
- FCC, IC, CE certified by accredited independent laboratory
- **RoHS Compliant**
- ✓ 2.4 GHz with Extended Range and DSSS (Direct Sequence Spread Spectrum)
- ✓ Worldwide license free operation
- ✓ 32-bit ARM-Core Digital Microprocessor
- Simple, straight forward, easy to install
- ✓ Encapsulated waterproof control package
- ✓ 1,600 ft. range line of sight
- ✓ LED diagnostic indicators
- ✓ Reverse polarity protection
- ✓ Wireless pairing function
- ✓ Loss of signal timeout
- ✓ Universal for 12VDC or 24VDC systems
- ✓ No perceivable delay between transmitter and receiver
- Multiple systems may operate within the same area in close proximity without interfering with each
- Factory configurable for custom applications*
- Factory custom wire/cable harnesses available*

APPLICATON:

The RP Series radio receiver is used to control the ON/OFF functions of hydraulic valves for cylinders and motors from a remote location. This series can also be used to control other devices that meet the electrical requirements. Ex. lights, horns, contactors, relays.

APPLICATON EXAMPLES:

- Tow Trucks
- Winches
- **Boat Lifts**
- Gates
- Conveyor Systems
- Service Truck Crane
- Stump Grinders
- AG Equipment
- Power units
- Automobile Carriers
- **Grain Carts**
- Turf Equipment
- Paving Equipment
- Door Lifts
- Lighting/Horns

DESCRIPTION:

The fully encapsulated RP Series are compact, durable, sealed and easy to install radio receivers. All exposed components on the receiver are made from non corrosive materials. This receiver is designed with Direct Sequence Spread Spectrum (DSSS) modulation for superior performance. It is a perfect complement to the Brand Series 21, Series 36 and Series 38 stackable directional control valves. Other control valves or solenoids meeting the appropriate specifications may be controlled as well.











2.4GHz Extended Range Sealed to **IP67**

32-bit Microprocessor



11-14 Page A25



SAFETY:

Our RP Series radio receivers are built with high quality long life components that are designed for use in harsh environments. We use the latest wireless and microprocessor technology including a 32-bit ARM-Core microprocessor to give these small controls some serious digital muscle. Our unique network design allows for operation of multiple units in the same location without interfering with each other. Safety and protection features:

- Watchdog monitor
- Single bit change redundancy
- Windowing watchdog monitor
- Over-current protection
- Short circuit protection
- Loss of signal timeout
- Reverse polarity protection
- Load dump protection
- Back EMF protection on all outputs
- Back-feed protected outputs

RELIABILITY:

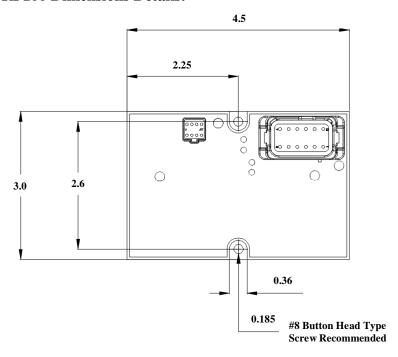
All Brand Hydraulics Co. products are backed by lifetime technical support from the engineers at the Brand Hydraulics Co. manufacturing facility. Our electrical engineers are ready to assist you before and after the sale with technical support. Brand Hydraulics Co. products are backed by a 2 year Limited Warranty Policy. Please visit our website at **www.brand-hyd.com** for more information.

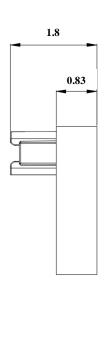
SPECIFICATIONS:	
Digital Outputs	4 – (1 ON at a time) Consult factory for other options
Back EMF Protection	Yes
Output Switching Type	Automotive Grade, High side switch
Output current per output	3 Amps
Total Maximum current	6 Amps
Short Circuit Protection Shutdown	10A
Supply Voltage, DC Only	8-30VDC
LED Indicators	Transmit, Reset, Power Good, Reverse Polarity, Output Active (one for each output)
Antenna	Internal
Range	1,600 ft. (Aprox. 500m) Line of sight. Depends on environment
Operating Temperature	-40°C - 85°C (-40°F - 185°F)
Storage Temperature	-40°C - 85°C (-40°F - 185°F)
Ingress Protection	IP67
Frequency	2.4 – 2.483 GHz
Modulation	DSSS (Direct Sequence Spread Spectrum)
Weight	9.5 oz, less any connector plug assemblies
Enclosure Material	Glass filled plastic
Approvals	USA – FCC Part 15.109
	European Union – CE (EN ETSI 301 489-1, V1.9.2)
-	Canada – ICES-003





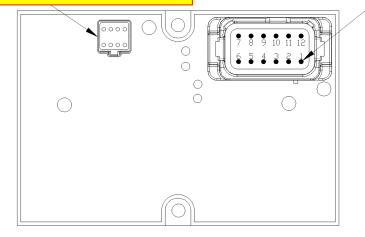
RP100 Dimensions Details:





RP100 Connector Details:

For factory use only. Do NOT remove this plug or make connections at this location.

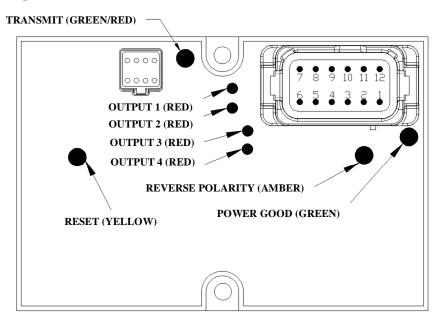


Receptacle – A Deutsch DT Series Keyed – A, Gray P/N: DTF15-12PA		
PIN 1 –	Power Input	
PIN 2 –	N/C	
PIN 3 –	Output 4	
PIN 4 –	Output 3	
PIN 5 –	Output 2	
PIN 6 –	Output 1	
PIN 7 –	Ground	
PIN 8 –	Ground	
PIN 9 –	Ground	
PIN 10 -	Ground	
PIN 11 –	Spare Ground	
PIN 12 –	System Ground	

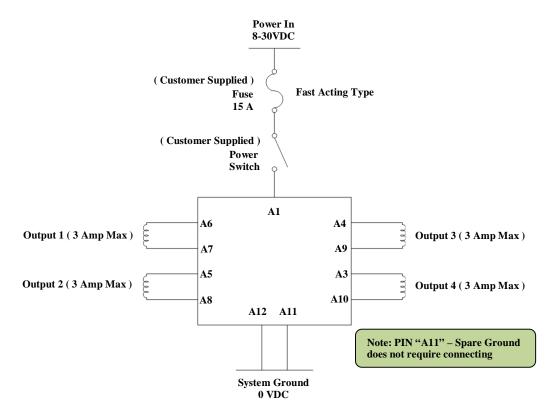




RP100 Diagnostic Indicators:



TYPICAL SYSTEM CONFIGURATION:







MATING BRAND HYDRAULICS TRANSMITTER MODELS:

- ➤ V100
- > V200
- > V300
- ➤ V400
- > V500

OPTIONAL PARTS AND ACCESSORIES:

E2365 – Deutsch 12-contact flying lead connector assembly, A-Key, 12 – 12" leads E2368 – Deutsch 12-contact plug body, A-Key, Gray – Deutsch P/N: DT06-12SA

E2371 – Wedge lock for 12-contact plug, Orange – Deutsch P/N: W12S E1827 – Terminal, socket, size 16 – Deutsch P/N: 0462-201-16141

E1827 – Terminal, socket, size 16 – Deutsch P/N: 0462-201-16141 E2024 – Sealing Plug, Locking, Size 16, White – Deutsch P/N: 0413-217-1605

E2401 – 8-Contact plug (For sealing receptacle on RP100 only)

Contact your local Brand Hydraulics distributor for pricing

What is Included:

Quantity	Description
1	RP100 Series, 4 – Digital Output Radio Receiver

It is the purchaser's responsibility to determine the suitability of any Brand Hydraulics product for an intended application, and to insure that it is installed in accordance with all federal, state, local, private safety, health regulations, and codes and standards. Due to the unlimited variety of machines, vehicles, and equipment on which our products can be used, it is impossible for Brand Hydraulics to offer expert advice on the suitability of a product for a specific application. We believe that it is our customer's responsibility to undertake the appropriate testing and evaluation to prevent injury to the end user.

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.



^{*}Some options and custom changes may require minimum quantities.