

# PQ Systems Ltd

- MOTION CONTROL -

## R-Series V

Magnetostrictive Linear Position Sensors

THE NEW GENERATION

**MTS**  
SENSORS



EtherCAT®

SSI

PROFI  
NET

EtherNet/IP™  
ODVA

Rockwell  
Automation  
Encompass™  
Product Partner

Analog

- Backward compatible
- Increased shock & vibration resistance – 30G vibration, 150G Shock
- Increased operating temperature up to +85 °C (+185 °F)
- Extended voltage range from 9.6 to 36Vdc
- Supports Industry 4.0 & IIoT (Industrial Internet of Things)
- Improved performance with high accuracy & reliability
- Multi-position measurement with up to 30 magnets
- TempoLink Programming from PC, Phone or Tablet
- Operational Statistics – Improve machine health and uptime
  - Temperature measurement
  - Cycle count, odometer, operational hours
  - Shock / vibration measurement

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### R-Series V - SSI



Stroke Lengths : 25 - 7620mm (1in - 300in)  
Output: SSI 24 or 25bit Binary or Grey Code  
Resolution : 0.1uM to 100uM (0.0001 to 0.1mm)  
Shock : 150G / 11ms - 30G Vibration  
Supply Voltage : 12-30Vdc  
IP Rating : 67 (connector) / 68 (cable outlet)  
Temperature : -40c to 85c (-40 to +185F)

### R-Series V - Analog



Stroke Lengths : 25 - 7620mm (1in - 300in)  
Output: 0-10V, 10-0V, 4-20mA, 20-4mA, 0-20mA  
Resolution : 16bit 1uM  
Shock : 150G / 11ms - 30G Vibration  
Supply Voltage : 12-30Vdc  
IP Rating : 67 connector / 68 (cable outlet)  
Temperature : -40c to 85c

### R-Series V - EtherNet



Stroke Lengths : 25 - 7620mm (1in - 300in)  
Output: EtherNet/IP – with CIP Sync & DLR Capabilities  
Resolution : 1 to 500uM  
Shock : 150G / 11ms - 30G Vibration  
Supply Voltage : 12-30Vdc  
IP Rating : 67  
Temperature : -40c to 85c  
Multi magnet – Up to 20 magnets Position & Velocity

### R-Series V – ProfiNet



Stroke Lengths : 25 - 7620mm (1in - 300in)  
Output: Profinet RT / IRT  
Resolution : 0.5 to 100um  
Shock : 150G / 11ms - 30G Vibration  
Supply Voltage : 12-30Vdc  
IP Rating : 67  
Temperature : -40c to 85c  
Multi magnet – Up to 30 magnets Position & Velocity



**IMPROVED  
SHOCK & VIBRATION  
RESISTANCE**



**HIGHER OPERATING  
TEMPERATURE**



**OPERATIONAL  
STATISTICS**



**BETTER MEASUREMENT  
PERFORMANCE**



**NOW SUPPORTS  
INDUSTRY 4.0 & IIoT**