

# M-System Co., Ltd.

## MECHATROLINK-III REMOTE I/O R7 Series

### Features

- Compact, all-in-one modules
- Max. 4 points of analog or 16/32 points of discrete I/O signals
- High-speed analog I/O modules are also available.
- Removable terminal blocks make the module replaceable without disconnecting wiring.
- Zero adjustment and other settings can be handled by message commands. (Message commands may not be usable for all models.)



### Model No. Identification

| MODEL             | FUNCTION  | POWER / I/O CONNECTION                 |
|-------------------|---|--|
| R7G4FML3-6-DA16   | 16-point contact input (NPN/PNP)  | M3 screw terminal                      |
| R7K4FML3-6-DA32   | 32-point contact input (NPN/PNP, external excitaion 24V)                                  | M3 screw terminal                      |
| R7K4FML3-6-DA32-1 | 32-point contact input (NPN/PNP, external excitaion 12V)                                  | M3 screw terminal                      |
| R7G4FML3-6-DC16A  | 16-point transistor output (NPN)  | M3 screw terminal                      |
| R7G4FML3-6-DC16B  | 16-point transistor output (PNP)  | M3 screw terminal                      |
| R7K4FML3-6-DC32A  | 32-point transistor output (NPN, external excitaion 24V)                                  | M3 screw terminal                      |
| R7K4FML3-6-DC32A1 | 32-point transistor output (NPN, external excitaion 12V)                                  | M3 screw terminal                      |
| R7K4FML3-6-DC32B  | 32-point transistor output (PNP, external excitaion 24V)                                  | M3 screw terminal                      |
| R7F4HML3-D-DAC32A | 16-point contact input (NPN/PNP) / 16-point transistor output (NPN)                       | Tension clamp terminal / MIL connector |
| R7F4HML3-D-DAC32B | 16-point contact input (NPN/PNP) / 16-point transistor output (PNP)                       | Tension clamp terminal / MIL connector |
| R7G4HML3-6-SV4    | 4-point DC voltage/current input (isolated)   | M3 screw terminal                      |
| R7G4HML3-6-SVF4   | 4-point high speed DC voltage/current input (isolated, conversion rate 200 $\mu$ s/4 chs) | M3 screw terminal                      |
| R7G4HML3-6-TS4    | 4-point thermocouple input (isolated)   | M3 screw terminal                      |
| R7G4HML3-6-LC2    | 2-point strain gauge input (message command)  | M3 screw terminal                      |
| R7G4HML3-6-LC2A   | 2-point Nireco tension sensor input (Nireco MB/MG tension sensor, message command)        | M3 screw terminal                      |
| R7G4HML3-6-STYVS1 | 1-point self-synch input / 1-point DC voltage/current output (message command)            | M3 screw terminal                      |
| R7G4HML3-6-PA1J   | 1-point rotary encoder speed/position input (RS-422 line driver)                          | M3 screw terminal                      |
| R7G4HML3-6-PA1A1  | 1-point rotary encoder speed/position input (5V open collector)                           | M3 screw terminal                      |
| R7G4HML3-6-PA1A4  | 1-point rotary encoder speed/position input (12V open collector)                          | M3 screw terminal                      |
| R7G4HML3-6-PA1A7  | 1-point rotary encoder speed/position input (24V open collector)                          | M3 screw terminal                      |
| R7G4HML3-6-YVF4   | 4-point high speed DC voltage output (isolated)   | M3 screw terminal                      |
| R7G4HML3-6-YSF4   | 4-point high speed DC current output (isolated)   | M3 screw terminal                      |

### MECHATROLINK specifications

|                    | M-III  |
|--------------------|--|
| Profile            | Standard I/O   |
| Data size          | 16byte   |
| Transmission cycle | 125 $\mu$ s, 250 $\mu$ s, 500 $\mu$ s, 1 to 64ms (1-ms increments) |

### Contact Information

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