High-speed Open Network for Motion Control
MECHATROLINK-I, II, III

COMPACT REMOTE I/O for MECHATROLINK

- Supporting MECHATROLINK-I, II, III
- Wide variety of I/O signals including discrete signals, DC voltage/current, temperature, strain gauge and pulse signals
- Compact all-in-one modules handle up to 4 analog I/O signals or 16, 32 and 64 discrete I/O signals

M-System is a board member of MECHATROLINK Members Association.
MMA (MECHATROLINK Members Association) is a group of product developers and users promoting the use of the open field network MECHATROLINK.
Adjustments can be performed right on the site by using remote parameter setting.

Commissioning operation of machines (or production lines), which used to need a team of personnel working in coordination, can be easily handled by a single operator.

Remote parameter setting with message command

*1. Consult M-System for more information about remote setting via touchscreen, tablet or smartphone.

GP4000 Touchscreen HMI is a product of Pro-face.

Pro-face GP4000 Touchscreen HMI

Parameters

Wireless LAN Router

Tablet Smartphone

Controller

MECHATROLINK-II

R7 Series Remote I/O

Remote parameter setting with message command

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MECHATROLINK-II System Configuration

http://www.m-system.com
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Application Example of MECHATROLINK Remote I/O

ROLL-TO-ROLL PROCESSING CONTROL

Roll-to-roll processing, also known as R2R, web processing or reel-to-reel processing, refers to any process of applying coating, evaporating, printing or performing other processes to films, sheets or foils, starting with a roll of flexible material and re-reeling after the process to create an output roll.

The process requires coordinated speed control of multiple rollers in line while continuously adjusting each one in order that the material is conveyed and rewound without distortion or deflection.

M-System R7 Series Remote I/O makes it possible to directly connect analog sensors monitoring pressure, speed, position and angle to MECHATROLINK-III, improving the performance of high speed motor control.

Remote I/O solution eliminates needs for dedicated analog I/O modules on the controller unit thus also saves a great part of wiring works, resulting in lower total cost.

Introducing MECHATROLINK Remote I/O for analog sensors essential for R2R processing

NIRECO tension sensor MB/MG series input

Model: R7G4HML3-6-LC2A
• Tension sensor input, 2 points

Dancer roller position detection + tension control

Model: R7G4HML3-6-STYVS1
• Self-synch input, 1 point
• DC voltage / current output, 1 point

Roller speed detection

Model: R7G4HML3-6-PA1
• Rotary encoder
• Speed/position input, 1 point

Dedicated amplifier for NIRECO MB/MG series
High speed sampling 2000 cycles/second
500μs

Self-synch signal input for dancer roller position detection

Control signal output for dancer roller torque motor

Remote setting by message commands

Remote setting by message commands

• RS-422 line driver
• 5 V open collector
• 12 V open collector
• 24 V open collector

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Application Example of MECHATROLINK Remote I/O

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Dedicated amplifier for NIRECO MB/MG series
High speed sampling 2000 cycles/second
500μs

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Control signal output for dancer roller torque motor

Remote setting by message commands

Remote setting by message commands

• RS-422 line driver
• 5 V open collector
• 12 V open collector
• 24 V open collector
COMPACT REMOTE I/O for MECHATROLINK-III

- Compact all-in-one modules handle up to 4 analog I/O signals or 16, 32 and 64 discrete I/O signals
- Power input and I/O terminal blocks are separable in two pieces for easy maintenance.
- Analog I/O are isolated between channels. PC configurator software is available for input range and scale setting (max. data range ±32000), zero/span adjustment.
- DC voltage/current input and output modules are available with 200 μsec. high speed conversion.

Model R7K4JML3 : 64-point Discrete I/O

<table>
<thead>
<tr>
<th>Model</th>
<th>I/O Function</th>
<th>Points</th>
<th>Features</th>
<th>CE</th>
</tr>
</thead>
<tbody>
<tr>
<td>R7K4JML3-E-DAFC64A</td>
<td>Di NPN/PNP discrete input</td>
<td>32</td>
<td>High speed input</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td>Do NPN transistor output</td>
<td>32</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Model R7K4FML3 : 32-point Discrete I/O

<table>
<thead>
<tr>
<th>Model</th>
<th>I/O Function</th>
<th>Points</th>
<th>Features</th>
<th>CE</th>
</tr>
</thead>
<tbody>
<tr>
<td>R7K4FML3-6-DA32</td>
<td>Di NPN/PNP discrete input</td>
<td>32</td>
<td>24V external input power</td>
<td>Y</td>
</tr>
<tr>
<td>R7K4FML3-6-DA32-1</td>
<td>Di NPN/PNP discrete input</td>
<td>32</td>
<td>12V external input power</td>
<td>Y</td>
</tr>
<tr>
<td>R7K4FML3-6-DC32A</td>
<td>Do NPN transistor output</td>
<td>32</td>
<td>24V external output power</td>
<td>Y</td>
</tr>
<tr>
<td>R7K4FML3-6-DC32A1</td>
<td>Do NPN transistor output</td>
<td>32</td>
<td>12V external output power</td>
<td>Y</td>
</tr>
<tr>
<td>R7K4FML3-6-DC32B</td>
<td>Do PNP transistor output</td>
<td>32</td>
<td>24V external output power</td>
<td>Y</td>
</tr>
</tbody>
</table>

Model R7F4HML3 : 32-point Discrete I/O

<table>
<thead>
<tr>
<th>Model</th>
<th>I/O Function</th>
<th>Points</th>
<th>Features</th>
<th>CE</th>
</tr>
</thead>
<tbody>
<tr>
<td>R7F4HML3-D-DA32</td>
<td>Di NPN/PNP discrete input</td>
<td>16</td>
<td></td>
<td>Y</td>
</tr>
<tr>
<td>R7F4HML3-D-DA32A</td>
<td>Do NPN/PNP discrete input</td>
<td>16</td>
<td></td>
<td>Y</td>
</tr>
</tbody>
</table>

Connector type and location varies depending upon models.

Convenient Separable Terminal Block

Power input and I/O terminal blocks are separable in two pieces for easy maintenance.
COMPACT REMOTE I/O for MECHATROLINK-

Model R7F4HML3 : 32-point Discrete I/O
Model R7K4FML3 : 32-point Discrete I/O

DC voltage/current input and output modules are available with Analog I/O are isolated between channels. PC configurator Power input and I/O terminal blocks are separable in two pieces Compact all-in-one modules handle up to 4 analog I/O signals or 16, 32 and 64 discrete I/O signals

R7F4HML3-D-DAC32B
R7K4FML3-6-DAC32B
R7K4FML3-6-DAC32A
R7K4FML3-6-DC32B
R7K4FML3-6-DC32A1
R7K4FML3-6-DC32A
R7K4FML3-6-DA32-1
R7K4FML3-6-DA32

55
200
53.5
20

range ±32000, zero/span adjustment. software is available for input range and scale setting (max. data

53.5
2.17
123
4.84

for easy maintenance. high speed conversion.

220
75
47
65

Do
Di
PNP transistor output
NPN/PNP discrete input
NPN transistor output
NPN/PNP discrete input
NPN/PNP discrete input
NPN/PNP discrete input

Di
Do
PNP transistor output
NPN transistor output
NPN transistor output
NPN transistor output
NPN/PNP discrete input
NPN/PNP discrete input

PNP transistor output
NPN/PNP discrete input
NPN transistor output
NPN/PNP discrete input
NPN/PNP discrete input
NPN/PNP discrete input

Do
Di
PNP transistor output
NPN transistor output
NPN transistor output
NPN transistor output
NPN/PNP discrete input
NPN/PNP discrete input

Do
Di
PNP transistor output
NPN transistor output
NPN transistor output
NPN transistor output
NPN/PNP discrete input
NPN/PNP discrete input

PNP transistor output
NPN/PNP discrete input
NPN transistor output
NPN/PNP discrete input
NPN/PNP discrete input
NPN/PNP discrete input

Do
Di
PNP transistor output
NPN transistor output
NPN transistor output
NPN transistor output
NPN/PNP discrete input
NPN/PNP discrete input

Do
Di
PNP transistor output
NPN transistor output
NPN transistor output
NPN transistor output
NPN/PNP discrete input
NPN/PNP discrete input

Power : Tension clamp terminal
I/O : M3 screw terminal
Power : M3 screw terminal
I/O : M3 screw terminal
Power : Tension clamp terminal
I/O : M3 screw terminal
Power : M3 screw terminal
I/O : M3 screw terminal

16-byte
Slave
125 µs, 250 µs, 500 µs, 1 to 64 ms (1-ms increments)

<table>
<thead>
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<th>Model</th>
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</thead>
<tbody>
<tr>
<td>R7G4FML3-6-DA16</td>
<td>Di</td>
<td>PNP/NPN discrete input</td>
<td>16</td>
<td>Y</td>
</tr>
<tr>
<td>R7G4FML3-6-DC16A</td>
<td>Do</td>
<td>NPN transistor output</td>
<td>16</td>
<td>Y</td>
</tr>
<tr>
<td>R7G4FML3-6-DC16B</td>
<td>Do</td>
<td>PNP transistor output</td>
<td>16</td>
<td>Y</td>
</tr>
</tbody>
</table>

Model R7G4FML3 : 16-point Discrete I/O

Model R7G4HML3 : Analog I/O

<table>
<thead>
<tr>
<th>Model</th>
<th>I/O Function</th>
<th>Points</th>
<th>Features</th>
<th>CE</th>
</tr>
</thead>
<tbody>
<tr>
<td>R7G4HML3-6-SV4</td>
<td>Ai</td>
<td>DC voltage/current input</td>
<td>4</td>
<td>Ch-to-ch isolation</td>
</tr>
<tr>
<td>R7G4HML3-6-SVF4</td>
<td>Ai</td>
<td>DC voltage/current input</td>
<td>4</td>
<td>Ch-to-ch isolation, High speed response</td>
</tr>
<tr>
<td>R7G4HML3-6-TS4</td>
<td>Ai</td>
<td>Thermocouple input</td>
<td>4</td>
<td>Ch-to-ch isolation</td>
</tr>
<tr>
<td>R7G4HML3-6-LC2</td>
<td>Ai</td>
<td>Strain gauge input</td>
<td>2</td>
<td>Ch-to-ch isolation, Setup commands via message communication</td>
</tr>
<tr>
<td>R7G4HML3-6-LC2A</td>
<td>Ai</td>
<td>NIRECO tension sensor input</td>
<td>2</td>
<td>Ch-to-ch isolation, Setup commands via message communication</td>
</tr>
<tr>
<td>R7G4HML3-6-PA1J</td>
<td>Ai</td>
<td>Encoder input</td>
<td>1</td>
<td>RS-422 line driver</td>
</tr>
<tr>
<td>R7G4HML3-6-PA1A1</td>
<td>Ai</td>
<td>Encoder input</td>
<td>1</td>
<td>5V open collector</td>
</tr>
<tr>
<td>R7G4HML3-6-PA1A4</td>
<td>Ai</td>
<td>Encoder input</td>
<td>1</td>
<td>12V open collector</td>
</tr>
<tr>
<td>R7G4HML3-6-PA1A7</td>
<td>Ai</td>
<td>Encoder input</td>
<td>1</td>
<td>24V open collector</td>
</tr>
<tr>
<td>R7G4HML3-6-STYVS1</td>
<td>Ai</td>
<td>Self synch input</td>
<td>1</td>
<td>Ch-to-ch isolation, Setup commands via message communication</td>
</tr>
<tr>
<td>R7G4HML3-6-YVF4</td>
<td>Ao</td>
<td>DC voltage output</td>
<td>4</td>
<td>Ch-to-ch isolation, High speed response</td>
</tr>
<tr>
<td>R7G4HML3-6-YSF4</td>
<td>Ao</td>
<td>DC current output</td>
<td>4</td>
<td>Ch-to-ch isolation, High speed response</td>
</tr>
</tbody>
</table>

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</tr>
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<tbody>
<tr>
<td>R7G4HML3-6-SV4</td>
<td>Ai</td>
<td>DC voltage/current input</td>
<td>4</td>
<td>Ch-to-ch isolation</td>
</tr>
<tr>
<td>R7G4HML3-6-SVF4</td>
<td>Ai</td>
<td>DC voltage/current input</td>
<td>4</td>
<td>Ch-to-ch isolation, High speed response</td>
</tr>
<tr>
<td>R7G4HML3-6-TS4</td>
<td>Ai</td>
<td>Thermocouple input</td>
<td>4</td>
<td>Ch-to-ch isolation</td>
</tr>
<tr>
<td>R7G4HML3-6-LC2</td>
<td>Ai</td>
<td>Strain gauge input</td>
<td>2</td>
<td>Ch-to-ch isolation, Setup commands via message communication</td>
</tr>
<tr>
<td>R7G4HML3-6-LC2A</td>
<td>Ai</td>
<td>NIRECO tension sensor input</td>
<td>2</td>
<td>Ch-to-ch isolation, Setup commands via message communication</td>
</tr>
<tr>
<td>R7G4HML3-6-PA1J</td>
<td>Ai</td>
<td>Encoder input</td>
<td>1</td>
<td>RS-422 line driver</td>
</tr>
<tr>
<td>R7G4HML3-6-PA1A1</td>
<td>Ai</td>
<td>Encoder input</td>
<td>1</td>
<td>5V open collector</td>
</tr>
<tr>
<td>R7G4HML3-6-PA1A4</td>
<td>Ai</td>
<td>Encoder input</td>
<td>1</td>
<td>12V open collector</td>
</tr>
<tr>
<td>R7G4HML3-6-PA1A7</td>
<td>Ai</td>
<td>Encoder input</td>
<td>1</td>
<td>24V open collector</td>
</tr>
<tr>
<td>R7G4HML3-6-STYVS1</td>
<td>Ai</td>
<td>Self synch input</td>
<td>1</td>
<td>Ch-to-ch isolation, Setup commands via message communication</td>
</tr>
<tr>
<td>R7G4HML3-6-YVF4</td>
<td>Ao</td>
<td>DC voltage output</td>
<td>4</td>
<td>Ch-to-ch isolation, High speed response</td>
</tr>
<tr>
<td>R7G4HML3-6-YSF4</td>
<td>Ao</td>
<td>DC current output</td>
<td>4</td>
<td>Ch-to-ch isolation, High speed response</td>
</tr>
</tbody>
</table>

SPECIFICATIONS COMMON SPECIFICATIONS

<table>
<thead>
<tr>
<th>M-III</th>
<th>Master / Slave</th>
<th>Transmission cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td>16-byte</td>
<td>Slave</td>
<td>125 µs, 250 µs, 500 µs, 1 to 64 ms (1-ms increments)</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Power input</th>
<th>24 V DC ±10%; ripple 10% p-p max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulation resistance</td>
<td>100 MΩ or more with 500 V DC</td>
</tr>
<tr>
<td>Dielectric strength</td>
<td>1500 V AC @1 minute (between isolated circuits)</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-10 to +55°C (14 to 131°F)</td>
</tr>
<tr>
<td>Operating humidity</td>
<td>30 to 90 %RH (non-condensing)</td>
</tr>
<tr>
<td>Mounting</td>
<td>DIN rail (35 mm wide) or wall surface</td>
</tr>
</tbody>
</table>

Mounting DIN rail (35 mm wide) or wall surface

Operating humidity 30 to 90 %RH (non-condensing)

Power input 24 V DC ±10%; ripple 10% p-p max.

Dielectric strength 1500 V AC @1 minute (between isolated circuits)

Operating temperature -10 to +55°C (14 to 131°F)

Operating humidity 30 to 90 %RH (non-condensing)
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- Compact all-in-one modules handle up to 4 analog I/O signals or 16 and 32 discrete I/O signals.
- Power input and I/O terminal blocks are separable in two pieces for easy maintenance.
- Analog I/O are isolated between channels. PC configurator software is available for input range and scale setting (max. data range ±32000), zero/span adjustment.
- Analog and discrete signals can be mixed in one node using extension module for model R7ML.

Model R7K4FML : 32-point Discrete I/O

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<tr>
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<th>Features</th>
<th>CE</th>
</tr>
</thead>
<tbody>
<tr>
<td>R7K4FML-6-DAC32A</td>
<td>Di NPN/PNP discrete input</td>
<td>32</td>
<td>24V external output power</td>
<td>Y</td>
</tr>
<tr>
<td>R7K4FML-6-DAC32B</td>
<td>Do NPN transistor output</td>
<td>32</td>
<td>24V external output power</td>
<td>Y</td>
</tr>
<tr>
<td>R7K4FML-6-DAC32C</td>
<td>Di NPN/PNP discrete input</td>
<td>16</td>
<td></td>
<td>Y</td>
</tr>
<tr>
<td>R7K4FML-6-DAC32D</td>
<td>Do NPN transistor output</td>
<td>16</td>
<td></td>
<td>Y</td>
</tr>
</tbody>
</table>

Model R7K4DML : 32-point Discrete I/O

<table>
<thead>
<tr>
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<th>I/O Function</th>
<th>Points</th>
<th>Features</th>
<th>CE</th>
</tr>
</thead>
<tbody>
<tr>
<td>R7K4DML-B-DAC32A</td>
<td>Di PNP discrete input</td>
<td>16</td>
<td></td>
<td>Y</td>
</tr>
<tr>
<td>R7K4DML-B-DAC32B</td>
<td>Do NPN transistor output</td>
<td>16</td>
<td></td>
<td>Y</td>
</tr>
<tr>
<td>R7K4DML-B-DAC32C</td>
<td>Di NPN discrete input</td>
<td>16</td>
<td></td>
<td>Y</td>
</tr>
<tr>
<td>R7K4DML-B-DAC32D</td>
<td>Do NPN transistor output</td>
<td>16</td>
<td></td>
<td>Y</td>
</tr>
</tbody>
</table>

Model R7G4HML : Analog I/O

<table>
<thead>
<tr>
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<th>I/O Function</th>
<th>Points</th>
<th>Features</th>
<th>CE</th>
</tr>
</thead>
<tbody>
<tr>
<td>R7G4HML-6-SVF4</td>
<td>Ai DC voltage/current input</td>
<td>4</td>
<td>Ch-to-ch isolation, High speed response</td>
<td>Y</td>
</tr>
<tr>
<td>R7G4HML-6-YVF4</td>
<td>Ao DC voltage output</td>
<td>4</td>
<td>Ch-to-ch isolation, High speed response</td>
<td>Y</td>
</tr>
</tbody>
</table>
Model R7ML: 16-point Discrete I/O or 2/4-point Analog I/O

8-point or 16-point discrete I/O extension module can be attached to the basic module.

**BASIC MODULE**

![BASIC MODULE](image)

**BASIC MODULE + 8-point EXTENSION MODULE**

![BASIC MODULE + 8-point EXTENSION MODULE](image)

**BASIC MODULE + 16-point EXTENSION MODULE**

![BASIC MODULE + 16-point EXTENSION MODULE](image)

**EXTENSION MODULE**

<table>
<thead>
<tr>
<th>Model</th>
<th>I/O Function</th>
<th>Points</th>
<th>Features</th>
<th>I/O Extension</th>
<th>CE</th>
</tr>
</thead>
<tbody>
<tr>
<td>R7ML-EA8</td>
<td>Di Ext</td>
<td>8</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>R7ML-EC8A</td>
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<td>R7ML-EA16</td>
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Analog/discrete I/O can be added to MECHATROLINK network without compromising the motion network speed!

HLS Master Module for Yaskawa MP2200/2300/3300 Series

HLS Master Module
Model: MPHLS
(manufacturer: M-System)

Remote I/O modules for HLS (Hi-speed Link System) proposed by StepTechnica Co., Ltd.
Up to 63 remote I/O nodes can be connected.
Various connection styles are available.

Model R7F4DH : 32- or 16-point Discrete I/O

- 16 x input or output, 8 x input + 8 x output
  (3M Mini-Clamp (e-CON) connector)

Model R7K4DH : 32-point Discrete I/O (16 points each)

- 16 x input or output, 8 x input + 8 x output
  (MIL connector(s))

Model R7G4HH : 4-point Analog I/O

- High-speed response
- Ch-to-ch isolation

Model R7HL : 16-point Discrete I/O, 2/4/8-point Analog I/O

- Ch-to-ch isolation

Specifications are subject to change without notice. When ordering, use the latest data sheets available at M-System web site: www.m-system.com