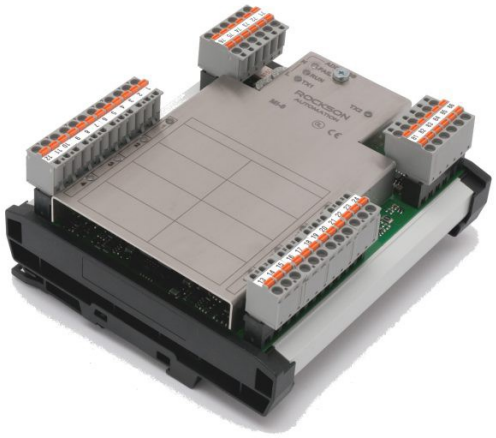
MI-8 *8 Channel Mixed Input Module*



Features

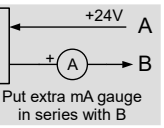
- Super flexible solution
- 8 three-wire inputs for most signal types:
  - 4 – 20 mA
  - RTD (Pt100)
  - Thermocouple
  - Potentiometer
  - 0 – 10 V
  - NPN and PNP initiators
  - Contact with break and short monitoring
- Detachable terminal blocks per channel
- Complete: No distribution strips required
- Built-in isolated sensor supply
- Built-in earth fault monitor
- Redundant power supply inputs
- Redundant isolated field buses
- Easy replacing: Just set address and go!

Specifications	
Physical	
Size W x H x D	128 x 140 x 65 mm
Mounting	35 mm DIN rail
Front / Rear panel seal	IP20
Weight	365 g
Power supply	
Supply voltage range	18 - 32 V DC
Power consumption	10 W
Signal inputs	
Sensor supply voltage	24 V
Sensor supply current	35 mA per channel
RTD measuring current	1.5 mA
4 – 20 mA input load	100 Ohms
Field buses	
Electrical	RS485
Protocol	Modbus RTU
Agency Approvals:	
EMI	IEC 60945 Chapters 9.2, 9.3
EMS	EN61000-4-2 (ESD), level 3
	EN61000-4-3 (RS), level 3
	EN61000-4-4 (EFT), level 3
	EN61000-4-5 (Surge), level 2
	EN61000-4-6 (CS), level 2
Vibration	IEC60068-2-6
Dry Heat	IEC60068-2-2
Humidity	IEC60068-2-30
Low Temperature	IEC60068-2-1
Maritime Specifications	GL, LR, DNV, IACS, BV

Terminal Assignment

+24V SENSOR SUPPLY : MAX. 35mA PER CHANNEL
current input resistor: 100 Ω

TWO WIRE TRANSMITTER



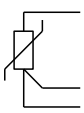
MI-8

	A	B	C		A	B	C
CH 01	1	2	/	CH 08	22	23	/
CH 02	4	5	/	CH 07	19	20	/
CH 03	7	8	/	CH 06	16	17	/
CH 04	10	11	/	CH 05	13	14	/

/ = NOT CONNECTED
Signal Type 1, 2, 3, 4, 16, 18

Put extra mA gauge in series with B

THREE WIRE PT100

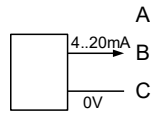


MI-8

	A	B	C		A	B	C
CH 01	1	2	3	CH 08	22	23	24
CH 02	4	5	6	CH 07	19	20	21
CH 03	7	8	9	CH 06	16	17	18
CH 04	10	11	12	CH 05	13	14	15

/ = NOT CONNECTED
Sognal Type 5, 20

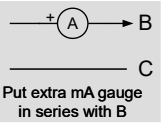
ACTIVE TWO WIRE TRANSMITTER



MI-8

	A	B	C		A	B	C
CH 01	/	2	3	CH 08	/	23	24
CH 02	/	5	6	CH 07	/	20	21
CH 03	/	8	9	CH 06	/	17	18
CH 04	/	11	12	CH 05	/	14	15

/ = NOT CONNECTED
Signal Type 1, 2, 3, 4, 16, 18



Put extra mA gauge in series with B

CONTACT WITH WIREBREAK MONITOR

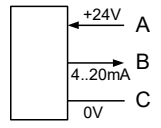
MI-8

	A	B	C		A	B	C
CH 01	1	2	/	CH 08	22	23	/
CH 02	4	5	/	CH 07	19	20	/
CH 03	7	8	/	CH 06	16	17	/
CH 04	10	11	/	CH 05	13	14	/

R1=3300..12000 Ω

/ = NOT CONNECTED
Signal Type 21

THREE WIRE TRANSMITTER

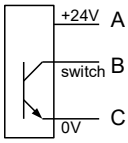


MI-8

	A	B	C		A	B	C
CH 01	1	2	3	CH 08	22	23	24
CH 02	4	5	6	CH 07	19	20	21
CH 03	7	8	9	CH 06	16	17	18
CH 04	10	11	12	CH 05	13	14	15

/ = NOT CONNECTED
Signal Type 1, 2, 3, 4, 16, 18

PROXIMITY SENSOR NPN

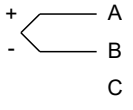


MI-8

	A	B	C		A	B	C
CH 01	1	2	3	CH 08	22	23	24
CH 02	4	5	6	CH 07	19	20	21
CH 03	7	8	9	CH 06	16	17	18
CH 04	10	11	12	CH 05	13	14	15

/ = NOT CONNECTED
Signal Type 12

THERMOCOUPLE

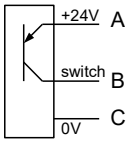


MI-8

	A	B	C		A	B	C
CH 01	1	2	/	CH 08	22	23	/
CH 02	4	5	/	CH 07	19	20	/
CH 03	7	8	/	CH 06	16	17	/
CH 04	10	11	/	CH 05	13	14	/

/ = NOT CONNECTED
Signal Type 6, 7, 8, 9

PROXIMITY SENSOR PNP



MI-8

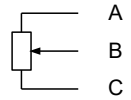
	A	B	C		A	B	C
CH 01	1	2	3	CH 08	22	23	24
CH 02	4	5	6	CH 07	19	20	21
CH 03	7	8	9	CH 06	16	17	18
CH 04	10	11	12	CH 05	13	14	15

/ = NOT CONNECTED
Signal Type 11

Terminal Assignment

+24V SENSOR SUPPLY : MAX. 35mA PER CHANNEL

POTENTIOMETER
MAX: 1 kΩ

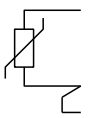


MI-8

	A	B	C		A	B	C
CH 01	1	2	3	CH 08	22	23	24
CH 02	4	5	6	CH 07	19	20	21
CH 03	7	8	9	CH 06	16	17	18
CH 04	10	11	12	CH 05	13	14	15

/ = NOT CONNECTED
Signal Type 13, 19

TWO WIRE PT100



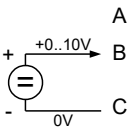
MI-8

	A	B	C		A	B	C
CH 01	1	2	3	CH 08	22	23	24
CH 02	4	5	6	CH 07	19	20	21
CH 03	7	8	9	CH 06	16	17	18
CH 04	10	11	12	CH 05	13	14	15

TWO WIRE:
NO COMPENSATION
FOR WIRE RESISTANCE

/ = NOT CONNECTED
Signal Type 5, 20

VOLTAGE + 0...10V

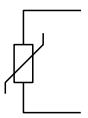


MI-8

	A	B	C		A	B	C
CH 01	/	2	3	CH 08	/	23	24
CH 02	/	5	6	CH 07	/	20	21
CH 03	/	8	9	CH 06	/	17	18
CH 04	/	11	12	CH 05	/	14	15

/ = NOT CONNECTED
Signal Type 14

TWO WIRE PT1000

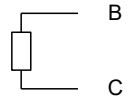


MI-8

	A	B	C		A	B	C
CH 01	1	/	3	CH 08	22	/	24
CH 02	4	/	6	CH 07	19	/	21
CH 03	7	/	9	CH 06	16	/	18
CH 04	10	/	12	CH 05	13	/	15

/ = NOT CONNECTED
Signal Type 22

RESISTOR 0...1500 Ohms

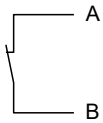


MI-8

	A	B	C		A	B	C
CH 01	/	2	3	CH 08	/	23	24
CH 02	/	5	6	CH 07	/	20	21
CH 03	/	8	9	CH 06	/	17	18
CH 04	/	11	12	CH 05	/	14	15

/ = NOT CONNECTED
Signal Type 17

CONTACT NC



MI-8

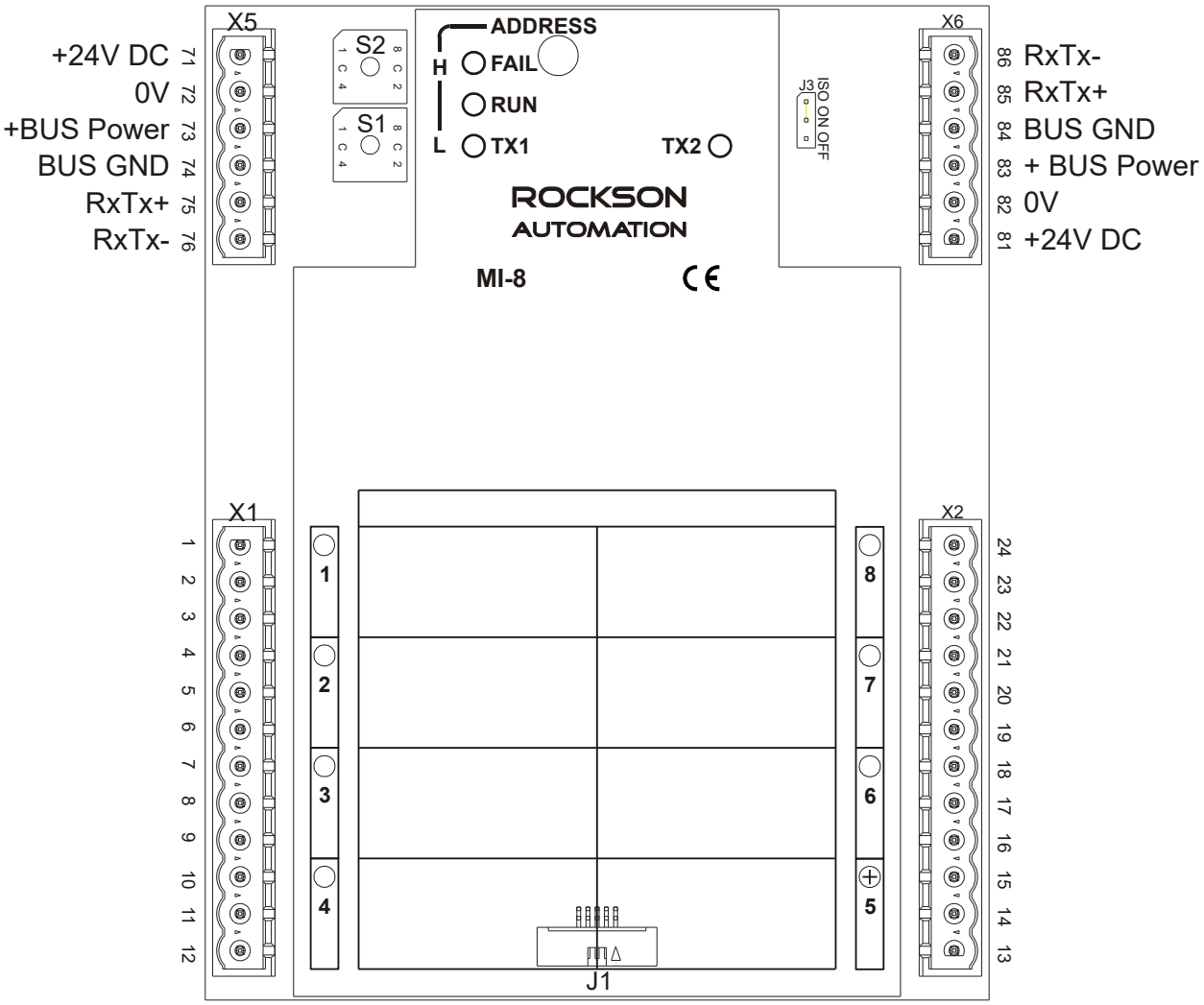
	A	B	C		A	B	C
CH 01	1	2	/	CH 08	22	23	/
CH 02	4	5	/	CH 07	19	20	/
CH 03	7	8	/	CH 06	16	17	/
CH 04	10	11	/	CH 05	13	14	/

/ = NOT CONNECTED
Signal Type 10

MI-8 *8 Channel Mixed Input Module*

connection diagram

LED FAIL: Red. Lights up in case of failure or earth fault.
LED RUN: Green. Lights steady when module is running.
LED Tx1: Yellow. Flickers when module is communicating with fieldbus at X5.
LED Tx2: Yellow. Flickers when module is communicating with fieldbus at X6.



Connector
for extension
modules