

I-87KW Series



Features

| Support | Digital | Inputs | (Sink | Туре) |
|---------|---------|--------|-------|-------|
| | | | | |

- Support Digital Outputs (Sink Type)
- DI Can Be Used As Counters
- 4 kV ESD Protection
- RoHS Compliant
- Wide Operating Temperature Range: -25 ~ +75°C

I-87055W

8-channel Non-Isolated Digital Input and 8-channel Non-Isolated Digital Output Module with 16-bit Counters

Introduction -

I-87055W offers 8-channel sink type digital inputs and 8-channel sink type digital outputs. All DI channels are also able to be used as 16-bit counters. I-87055W has 16 LED indicators for both DI & DO channel status. 4 KV ESD protection for input/output channels is standard.



Applications -

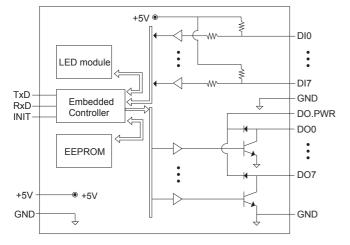
Building Automation, Factory Automation, Machine Automation, Remote Maintenance, Remote Diagnosis, Testing Equipment.

System Specifications _____ I/O Specifications _____

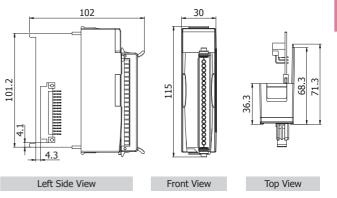
| Communication | | |
|--|---|--|
| Interface | RS-485 | |
| Format | N, 8, 1 | |
| Baud Rate | 1200 ~ 115200 bps | |
| Protocol | DCON | |
| Dual Watchdog | Yes, Module (1.6 Seconds), Communication (Programmable) | |
| Safe Value (When Host Fail or Communication Fail) | Yes | |
| Power-on Preset Value | Yes | |
| LED Indicator/Display | | |
| System LED Indicator | 1 LED as Power/Communication Indicator | |
| I/O LED Indicator | 16 LEDs as High/Low Alarm Signals | |
| Isolation | | |
| Intra-Module Isolation, Field-to-Logic | 3000 Vpc | |
| EMS Protection | | |
| ESD (IEC 61000-4-2) | 4 kV Contact for Each Terminal | |
| ESD (IEC 61000-4-2) | 8 kV Air for Random Point | |
| Power | | |
| Power Consumption | 0.6 W Max. | |
| Mechanical | | |
| Dimensions (W x L x H) | 30 mm x 102 mm x 115 mm | |
| Environment | | |
| Operating Temperature | -25 ~ +75°C | |
| Storage Temperature | -40 ~ +85°C | |
| Humidity | 10 ~ 95% RH, Non-condensing | |

| Digital In | put | |
|------------------------------------|----------------------|--|
| Channels | | 8 |
| Туре | | Dry Contact |
| Sink /Sourc | e (NPN /PNP) | Sink |
| On Voltage | Level | Close to GND. |
| Off Voltage | Level | Open |
| | Channels | 8 |
| Counters | Max. Counts | 16-bit (65535) |
| counters | Max. Input Frequency | 100 Hz |
| | Min. Pulse Width | 5 ms |
| Channel to | Channel Isolation | Yes |
| Low Pass F | ilter | Yes |
| Effective Distance for Dry Contact | | 100 m Max. |
| Digital Ou | tput | |
| Channel | | 8 |
| Туре | | Open Collector |
| Sink /Source (NPN /PNP) | | Sink |
| Load Voltage | | +5 V _{DC} ~ +30 V _{DC} |
| Max. Load Current | | 100 mA/ channel |
| Short Circuit Protection | | - |
| Power-on Value | | Yes |
| Safe Value | | Yes |

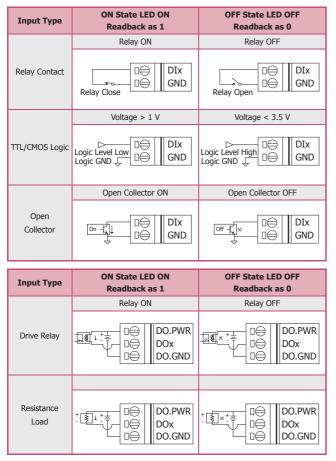
Internal I/O Structure _____



Dimensions (Units: mm) ____



Wire Connections -



🗖 Pin Assignments 🗕

| N | Terr | minal No. | Pin Assignment |
|----------------|-------|-----------|----------------|
| ľ | | 01 | DIO |
| 6 7 | | 02 | DI1 |
| _ | | 03 | DI2 |
| | | 04 | DI3 |
| | | 05 | DI4 |
| | | 06 | DI5 |
| | | 07 | DI6 |
| 5 | [•] | 08 | DI7 |
| ₽ | Ç 🖬 (| 09 | GND |
| ╣║║ | Ç 🛛 | 10 | GND |
| 5 | C | 11 | GND |
| ₽ | Ç 🗉 | 12 | DO0 |
| š H | C = (| 13 | DO1 |
| 5 | C - 1 | 14 | DO2 |
| | C | 15 | DO3 |
| ╣║║ | C - | 16 | DO4 |
| 5 | C | 17 | DO5 |
| 2 | C - | 18 | DO6 |
| | C . | 19 | DO7 |
| | C = I | 20 | DO.PWR |
| | | | |

🗾 Ordering Information 🗕

| | 8-channel Non-Isolated Digital Input and 8-channel |
|-------------|--|
| 87055W-G CR | Non-Isolated Digital Output Module with 16-bit |
| | Counters (Gray Cover) (RoHS) |

Accessories -

| RM-104/108/ | Power Relay Module ,1 form C |
|-------------|--|
| RM-204/208/ | Power Relay Module ,2 form C |
| DN-SSR4 | 4-channel Solid state Relay Module ,1 form A |

| RM-22.22 | 2 Pole, 20 A relay for direct 35 mm rail (EN 50022) mounting |
|-----------|--|
| SG-770 CR | 7 channel differential or 14 channel single-ended surge protector (RoHS) |

RS-485 Remote I/O Modules

I-87055W