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GL20-3200END-M Digital Input Module

Equipment Guide

Industrial Automation | New Energy Vehicle | Intelligent Elevator | Intelligent Robot | Digital Energy | Rail Transit

Data code PS00021817A02

Legal Information

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Due to continuous updates and improvements of products and technologies, the content of this documentation may not fully match the actual products. In the event of any discrepancies, the actual products shall prevail.

The contents are subject to change without notice due to product upgrade.

Waste Disposal

The storage, use, and disposal of this product (including optional accessories) must comply with local laws and regulations.

Qualified Personnel

The product/system described in this documentation may be operated only by personnel qualified for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel can identify the risks of the product/system and prevent possible dangers.

Proper Use of the Product

Proper transportation, storage, assembly, installation, commissioning, operation, and maintenance are required to ensure the safe operation of the product without any problems. The required ambient conditions must be met. All operations must follow the guidelines provided in this documentation.

Preface

Introduction

This guide includes the module-specific information, such as model, components, and technical specifications.

Note

- The drawings in the user guide are shown for demonstration only, which may not match the product purchased.
- The user guide is subject to change without notice due to product upgrade, specification modifications as well as efforts to improve the accuracy and convenience of the user guide.

Documentation guide

The product documentation package is organized into equipment guide and system guide, enabling you to quickly access the information as needed.

- Equipment guide: Contains a brief description of module properties, including model, components, technical specifications, and terminal wiring diagrams.
- System guide: Covers all typical application scenarios of the system, providing detailed description of system configuration, installation, wiring, commissioning, and troubleshooting.

Standards compliance

The following table lists the certifications, directives, and standards that the product may comply with. For details about the acquired certificates, see the certification marks on the product nameplate.

Certification	Directive		Standard
CE certification	EMC directive	2014/30/EU	**24 VDC products:** EN 61131-2 **220 VAC products:** EN 61131-2 EN 61000-3-2 EN 61000-3-3
	LVD directive	2014/35/EU	EN 61010-1 EN 61010-2-201
	RoHS directive	2011/65/EU amended by (EU) 2015/863	EN IEC 63000
UL/cUL certification	-		UL 61010-1 UL 61010-2-201 CAN/CSA-C22.2 No. 61010-1 CSA C22.2 NO. 61010-2-201
KCC certification	-		-
EAC certification	-		-

Certification	Directive		Standard
UKCA certification	Safety regulations	Electrical Equipment (Safety) Regulations 2016	EN 61010-1 EN 61010-2-201
	EMC regulations	Electromagnetic Compatibility Regulations 2016	**24 VDC products:** EN 61131-2 **220 VAC products:** EN 61131-2 EN 61000-3-2 EN 61000-3-3
	RoHS regulations	Directive (RoHS) Regulations 2012	EN IEC 63000
TUV certification	-		ISO 13849-1 ISO 13849-2 IEC 62061 IEC 61508 IEC 61131-6

More documents

Document	Code	Description
GL20 Series Module System Guide	PS00022010	Covers all typical application scenarios of the system, providing detailed description of system overview, installation, wiring, commissioning, and fault diagnosis.
GL20-3200END-M Digital Input Module Equipment Guide (this guide)	PS00021817	Contains a brief description of module properties, including model, components, technical specifications, and terminal wiring diagrams.

Revision history

Date	Version	Description
2026-07	A02	**Updated content** Modified *"5.2 Terminal Wiring Diagram" on page 16*. **New content** Added *" List of Spare Parts" on page 20*.
2026-03	A01	Corrected some minor errors.
2026-02	A00	Initial release.

Access to the guide

This guide is not delivered with the product. You can download the PDF version in the following ways:

- Visit https://www.inovance.com/global, and choose Service&Support > Support > Documentation Download.
- Scan the QR code on the product with your smart phone.
- Scan the QR code below to install My Inovance app, where you can search for and download the guide.



Warranty

Inovance provides warranty service within the warranty period (as specified in your order) for any fault or damage that is caused by proper operation of the user. Maintenance will be charged after the warranty expires.

Even within the warranty period, maintenance can be charged for the following product damage:

- Damage caused by operations not following the instructions in the guide
- Damage caused by fire, flood, or abnormal voltage
- Damage caused by using the product for unintended functions
- Damage caused by using the product outside the specified scope
- Damage or secondary damage caused by force majeure (natural disaster, earthquake, and lightning strike)

When applicable, relevant maintenance fee will be charged according to the latest Price List of Inovance. If otherwise agreed upon, the agreed terms and conditions shall prevail.

For details, see the Warranty Card.

1 General Safety Rules

1.1 General Safety Instructions

Safety disclaimer

1. Read through the safety instructions before installing, operating, and servicing the equipment, and comply with these instructions.
2. To ensure personal and equipment safety, observe the notes indicated on the product labels and all the safety instructions in the user guide.
3. The "CAUTION", "WARNING", and "DANGER" are only supplements to the safety instructions.
4. Use this product according to the designated environment requirements. Damage caused by improper use is not covered by warranty.
5. Inovance shall take no responsibility for any personal injury or property damage caused by improper use.

Safety levels and definitions



indicates that failure to comply with the notice will result in severe personal injury or even death.



indicates that failure to comply with the notice may result in severe personal injury or even death.



indicates that failure to comply with the notice could result in minor or moderate personal injury, or equipment damage.

Unpacking
 • Do not install the product in the case of any damage, rust, or signs of use on the product or accessories upon unpacking. • Do not install the product in the case of water seepage into the product or missing or damaged components upon unpacking. • Do not install the product in the case of any discrepancy between the product you received and the product name on the packing list.
 • Check for secondary packaging integrity, damage, water seepage, dampness, and deformation before unpacking. • Unpack the package layer by layer. Do not strike the package violently. • Check for damage, rust, or scratches on the surfaces of the product and accessories upon unpacking. • Check the number of the product, accessories, and paper materials against the packing list carefully upon unpacking.

Storage and transportation
WARNING • Large or heavy equipment must be handled by qualified professionals using specialized hoisting equipment. Failure to comply may result in personal injury or equipment damage. • Before hoisting the equipment, ensure that components such as the front cover and terminal blocks are secured firmly with screws. Loosely connected components may fall off and result in personal injury or equipment damage. • Never stand or stay below the equipment which is being hoisted. • Hoist the equipment at a constant speed with a steel rope to prevent any vibration or shock to the equipment. Never turn the equipment over or keep it suspended for a long time. Failure to comply may result in personal injury or equipment damage.
Caution • Handle the equipment with care and mind your steps during transportation to prevent personal injury or equipment damage. • When handling the equipment by hand, hold the enclosure securely to prevent parts from falling. Failure to comply may result in personal injury. • Store and transport the equipment based on the storage and transportation requirements. Failure to comply may result in equipment damage. • Do not store or transport the equipment in locations where the equipment may be exposed to splashing water or rain, direct sunlight, strong electric field, strong magnetic field, or strong vibration. • Store the equipment for up to three months. Take stricter protective measures and carry out the necessary inspections for a longer storage time. • Pack the equipment securely and properly before transportation. Use a fully enclosed container for long-distance transportation. • Never transport the equipment with other devices or items that may cause adverse effects or damage to the equipment.

Design
DANGER • Provide a safety circuit and include an error handling program in the software to ensure that the product remains in a safe state in case of an external power failure or an internal fault. • Add an external safety device such as a fuse or circuit breaker because the equipment may smoke or burn due to long-time overcurrent caused by a rating error or short-circuited load.
WARNING • Any damaged output components such as relays or transistors in this product may result in uncontrolled output that stays in a constant ON or OFF state. • The product design must comply with the overvoltage category requirements specified in the Environmental Specifications. The system-level power supply must have a lightning protection device, assuring that overvoltage due to lightning shock is not applied to the terminals such as power supply input terminals, signal input terminals, and control output terminals, to prevent damage to the product. • Ensure that appropriate actions have been taken to prevent product malfunction caused by a communication fault between the product and related devices. Failure to comply may cause personal injury or equipment damage.
Caution Do not configure switches on the touch panel that could cause personal injury or equipment damage. Configure separate switches for performing important operations, or an accident may occur in case of an output error or a fault.

Installation
DANGER The equipment must be operated by professionals who have received electrical trainings and have sufficient electrical knowledge.

Installation

WARNING

- Read through the guide and safety instructions before installation.
- Do not install this equipment in places with strong electric or magnetic field.
- Before installation, check that the mechanical strength of the installation site can bear the weight of the equipment. Failure to comply may result in mechanical hazards.
- Before installation, ensure that the mounting environment meets the environmental specifications. Failure to comply may result in equipment damage.
- Do not wear loose clothes or accessories during installation. Failure to comply may result in an electric shock.
- Before installing the equipment in an enclosed environment (such as a cabinet or case), use a cooling device (such as a fan or air conditioner) to cool the environment to the required temperature. Failure to comply may result in equipment over-temperature or a fire.
- Do not retrofit the equipment.
- Do not fiddle with the bolts used to fix equipment components or the bolts marked in red.
- Install the equipment in an indoor cabinet or terminal device that is equipped with a fire-resistant enclosure, an electrical protection enclosure, or a mechanical protection enclosure meeting the IEC standards and local laws and regulations.
- Before installing devices with strong electromagnetic interference, such as a transformer, install a shielding device for this equipment to prevent malfunction.
- Install the equipment onto an incombustible object such as a metal. Keep the equipment away from combustible objects. Failure to comply may result in a fire.
- For any equipment not supporting hot swapping, disconnect all external power supplies of the system before installing/disassembling the equipment. Failure to comply may result in an electric shock or equipment fault or malfunction.

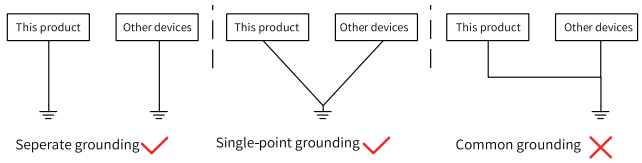
Caution

- Cover the top of the equipment with a piece of cloth or paper during installation. This is to prevent unwanted objects such as metal chippings, oil, and water from falling into the product and causing faults. After installation, remove the cloth or paper for effective ventilation and cooling.
- During installation, fasten the equipment securely to appropriate connectors with connecting hooks. Improper installation may cause the equipment malfunction, failure, or loosening.

Wiring

DANGER

- The equipment must be operated by professionals who have received electrical trainings and have sufficient electrical knowledge.
- Before wiring, switch off all power supplies of the equipment. Wait for at least the time designated on the warning label before further operations because residual voltage still exists after power-off. Measure the DC voltage of the main circuit and make sure that it is below the safety voltage. Failure to comply may result in an electric shock.
- Do not perform wiring, remove the equipment cover, or touch the circuit board with power-on. Failure to comply may result in an electric shock.
- Check that the equipment is grounded properly. Failure to comply may result in an electric shock. Separate grounding or single-point grounding, other than common grounding, is recommended.



- Insulate the cable terminals properly to ensure the insulation distance between cables will not be shortened after cables are connected to the terminal block. Failure to comply may result in an electric shock or equipment damage.
- Install the terminal cover attached to the equipment before power-on or operation after wiring is completed. Failure to comply may result in an electric shock.

Wiring



- Never connect the power cable to output terminals of the equipment. Failure to comply may cause equipment damage or even a fire.
- Cables must meet size and shield requirements. The shield must be reliably grounded at one end.
- Fix the terminal screws with the tightening torque specified in the guide. Improper tightening torque may cause the connecting part over-temperature or damage, resulting in a fire.
- After wiring, be sure that all cables are connected properly with no screws, gaskets, or exposed cables inside the product, or it may result in an electric shock or equipment damage.



- Follow the proper electrostatic discharge (ESD) procedure and wear an anti-static wrist strap to perform wiring. Failure to comply may result in damage to the equipment or its internal circuits.
- Use shielded twisted pair cables for the control circuit. Connect the shield to the grounding terminal of the equipment. Failure to comply may result in equipment malfunction.

Power-on



- The equipment must be operated by professionals who have received electrical trainings and have sufficient electrical knowledge.
- Before power-on, check that the equipment is installed and wired properly.
- Before power-on, make sure that the power supply meets equipment requirements to prevent equipment damage or even a fire.
- Never open the cabinet door or protective cover of the equipment, touch any terminal of the equipment, or remove any part of the equipment with power-on. Failure to comply may result in personal injury or even death.



After wiring, perform a trial run of the equipment to confirm it operates safely. Failure to comply may result in personal injury or equipment damage.

Operation



- The equipment must be operated by professionals. Failure to comply will result in personal injury or even death.
- During the equipment operation, never touch any terminals or remove any parts of the equipment. Failure to comply may result in an electric shock.



- Never touch the enclosure, fan, or resistor with a bare hand. Failure to comply may result in burns.
- Prevent metal or other objects from falling into the equipment during operation. Failure to comply may result in a fire or equipment damage.
- Do not bring live parts into contact with the metal enclosure of the running equipment. Failure to comply may result in a fire or equipment damage.



Operation

- Operate the equipment within the specified environmental conditions. Failure to comply may result in equipment failure or damage.
- Touch the HMI panel with hands only. Failure to comply may cause panel damage, which is out of the warranty range.

Safety recommendations

- In positions where the operator directly touches the mechanical components, for example, where a mechanical device is loaded/unloaded, or where a machine runs automatically, manually-operated devices or other alternative means must be carefully designed so that they are independent of the product to start or stop the automatic operation of the system.
- If you need to modify the program while the system is running, use the lock function or other protective measures. Ensure that only authorized personnel can make the necessary modifications.

Battery usage



- Do not replace batteries that do not meet product requirements. Failure to comply may cause a fire, explosion, injury, or death.
- Do not throw batteries in fire or hot ovens or crush or cut them. Failure to comply may cause a fire, explosion, injury, or death.
- Do not expose batteries to extremely high temperatures. Failure to comply may cause a fire, explosion, injury, or death.
- Do not swallow batteries. Failure to comply may result in chemical burns.
- Seek for medical treatment immediately if a button battery is swallowed, because this may cause severe internal burns within two hours and even death.



- Keep batteries out of reach of children.
- If the battery compartment is not securely closed, stop using the product immediately and keep it out of reach of children.

Maintenance



- Maintenance must be performed by qualified maintenance personnel who have received electrical trainings and have sufficient electrical knowledge.
- Never maintain the equipment with power-on. Failure to comply may result in an electric shock.
- Before maintenance, disconnect all the power supplies of the equipment and wait for at least the time specified on the warning label.
- Disconnect all external power supplies of the system before cleaning the equipment or re-tightening screws on the terminal block or screws of the connectors. Failure to comply may result in an electric shock.
- Before disassembling this equipment or connecting or disconnecting cables, disconnect all external power supplies of the system. Failure to comply may result in an electric shock or malfunction.



Perform routine and periodic inspection and maintenance on the equipment according to maintenance requirements and keep a maintenance record.

Repair



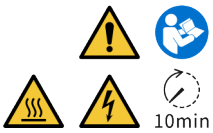
- Repair must be performed by qualified repair personnel who have received electrical trainings and have sufficient electrical knowledge.
- Never repair the equipment with power-on. Failure to comply may result in an electric shock.
- Before inspection or repair, disconnect all the power supplies of the equipment and wait for at least the time specified on the warning label.

Repair
WARNING • Submit a request for repair based on the warranty agreement. • When the fuse is blown or the circuit breaker or earth leakage circuit breaker (ELCB) trips, wait for at least the time specified on the warning label before power-on or further operations. Failure to comply may result in equipment damage, personal injury, or even death. • Troubleshooting and repair of a faulty or damaged equipment must be performed by professionals based on the repair instructions, with the repair records kept properly. • Replace quick-wear parts of the equipment according to the replacement instructions. • Never operate the damaged equipment. Failure to comply may result in personal injury or death, or greater equipment damage. • After replacing the equipment, always check the wiring and configure the parameters again.

Disposal
WARNING • Dispose of the retired equipment in accordance with applicable national regulations and standards. Failure to comply may result in property damage, personal injury, or death. • Recycle retired equipment in accordance with industry waste disposal standards to avoid environmental pollution. • Treat the retired equipment as industrial waste. Dispose of used batteries according to local laws and regulations.

Safety labels

To ensure safe operation, comply with safety labels on the equipment and do not damage or remove the labels. The following table describes the meanings of the safety labels.

Safety labels	Description
	• Read through the guide and safety instructions before operating the equipment. Failure to comply may result in equipment damage, personal injury, or death. • Do not touch the terminals or remove the cover with power-on or within 10 minutes after power-off. Failure to comply may result in an electric shock. • The surface of the running equipment may become very hot. Do not touch these hot areas. Failure to comply may cause burns.

1.2 Industrial Information Security

The product provides interfaces for network connection and data transmission. To protect factories, systems, machines, and networks from cyberattacks, it is essential to implement proper protection mechanism for industrial security.

Customers are responsible for providing and maintaining a secure connection between the product and their network or any other network to protect their factories, systems, machines, and networks from unauthorized access. Such systems or machines can be connected to an enterprise network or the Internet only when a secure connection is established and appropriate security measures (such as using antivirus software or installing firewalls) are in place.

Inovance continuously develops and improves its products and solutions to enhance safety. It is strongly recommended that you update the product promptly and always use the latest version.



Malware (such as viruses, Trojans, and worms) can bring the device into an unsafe operating state, resulting in death, serious injury, and property damage. Observe the following precautions:

- Always use the latest software version. If the product version is no longer supported or the latest version is not used, you will be exposed to increased risk of cyber attacks.
- Develop and maintain appropriate protective measures (including but not limited to antivirus software, firewalls, WAF, IPS/IDS, situational awareness system, identity authentication, and data encryption) to prevent the files in mobile storage devices from being damaged by malware, and to protect the products, networks, systems, and interfaces from unauthorized access, tampering, hacking, data leakage, or information theft.
- Check all safety-related interfaces and settings after commissioning.

2 Product Overview

GL20-3200END-M is a 32-channel digital input expansion module. It supports source and sink input and can be used with GL20 series communication interface modules and Easy series PLCs.

3 Model Number and Nameplate

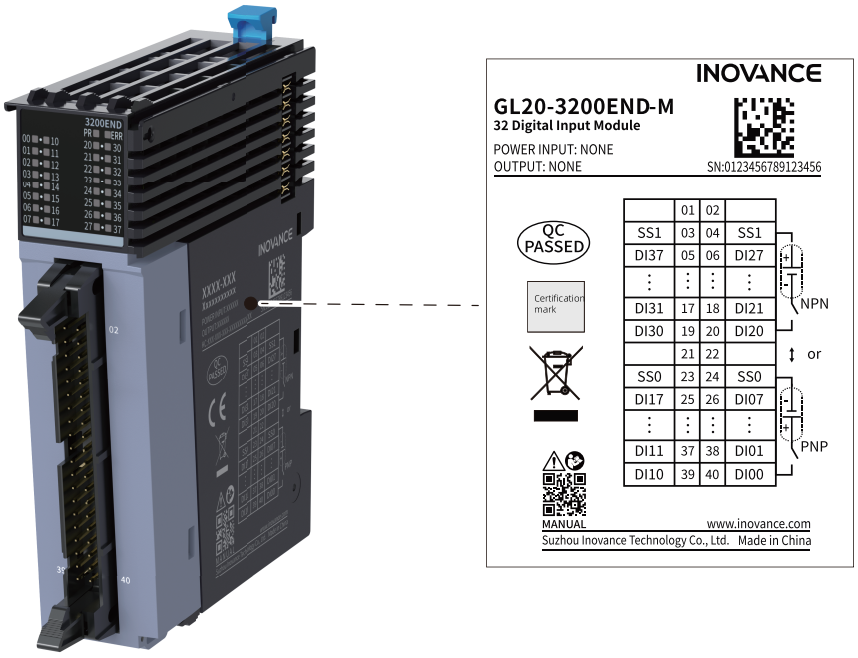
Model

GL 20 - 32 00 E N D - M

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

①	**Product information** GL: General local module	③	**Number of I/O channels** 32: 32 input channels	⑤	**Module type** E: Logic I/O expansion module	⑦	**Voltage type** D: 24 VDC
②	**Series** 20: 20 series module	④	**Number of I/O channels** 00: 0 output channel	⑥	**Output type** N: No output	⑧	**Terminal type** M: Ejector header (For the PUSHIN terminal, this item is empty by default)

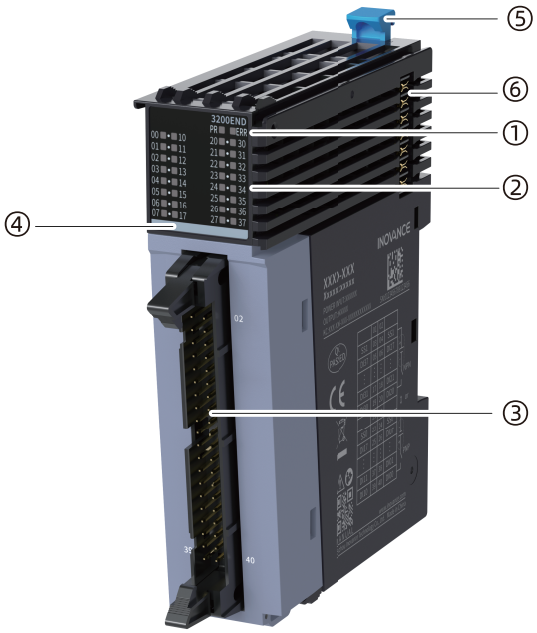
Nameplate



Based on the above naming rules and nameplate information, the relevant ordering data of the product is provided in the following table.

Model	Description	Product code	Applicable model
GL20-3200END-M-INT	GL20 series 32-channel digital input module	01441091	Easy series products and GL20 series communication interface modules

4 Component Description



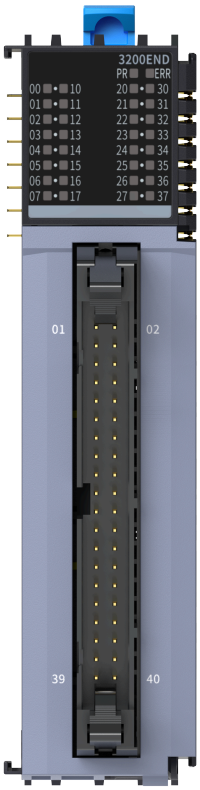
No.	Name	Description			
①	Signal indicator	PR(POWER +RUN)	Power/Operation indicator	Yellow-green	• Steady ON: The module is in normal operation. • Fast flashing: The module is addressed successfully. • Slow flashing: The module is powered on but not addressed. • OFF: The module is not powered on or is faulty.
		ERR	Fault indicator	Red	ON: The module is faulty.
②	I/O signal indicator	00-37	I/O signal indicator	Yellow-green	ON: Input/Output active OFF: Input/Output inactive
③	Ejector header	-	32 inputs and 0 outputs	-	For details, see *"5.1 Terminal Assignment" on page 15*
④	Color identification	Red: Digital output		Orange: Analog output	
		Gray: Digital input		Green: Analog input	
		White: Communication		Blue: Other modules	
⑤	Rail mounting latch	Used to secure the module to the DIN rail.			
⑥	Three-position terminal block	Used for backplane bus power supply and communication.			

Note

- Fast flashing: ON for 200 ms and OFF for 200 ms (cyclic).
- Slow flashing: ON for 200 ms and OFF for 1 s (cyclic).

5 Terminal Wiring

5.1 Terminal Assignment



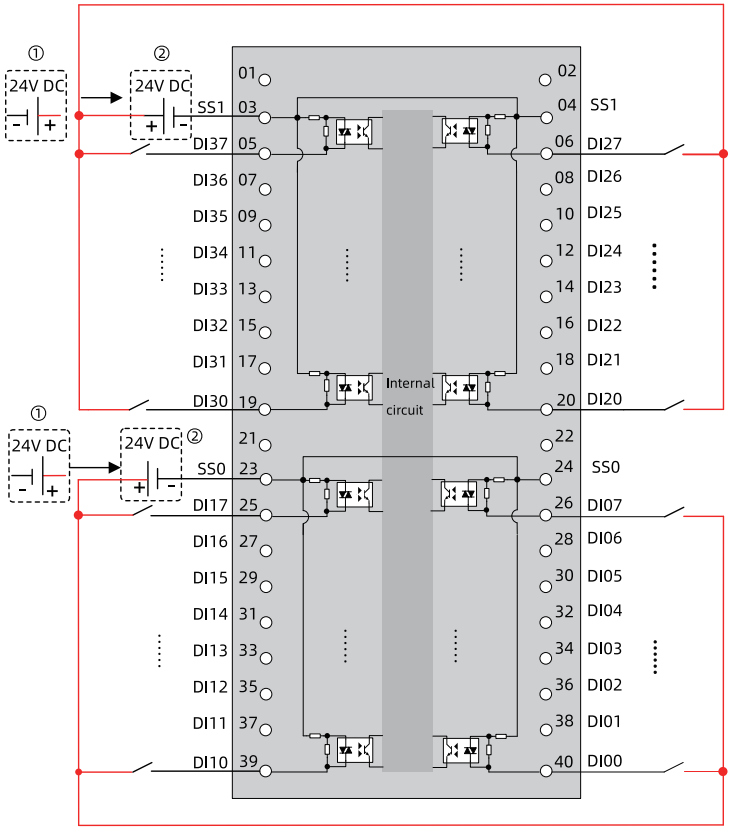
Display (left)	Signal (left)	Terminal (left)	Terminal (right)	Signal (right)	Display (right)
-	-	01	02	-	-
-	SS1	03	04	SS1	-
37	DI37	05	06	DI27	27
36	DI36	07	08	DI26	26
35	DI35	09	10	DI25	25
34	DI34	11	12	DI24	24
33	DI33	13	14	DI23	23
32	DI32	15	16	DI22	22
31	DI31	17	18	DI21	21
30	DI30	19	20	DI20	20
-	-	21	22	-	-
-	SS0	23	24	SS0	-
17	DI17	25	26	DI07	07
16	DI16	27	28	DI06	06
15	DI15	29	30	DI05	05
14	DI14	31	32	DI04	04
13	DI13	33	34	DI03	03
12	DI12	35	36	DI02	02
11	DI11	37	38	DI01	01
10	DI10	39	40	DI00	00

5.2 Terminal Wiring Diagram

Precautions

- Do not bundle the extension cables with power cables (high voltage and high current) that produce strong interference signals, as this may increase noise, surges, and induction effects. Separate the extension cables from the power cables and avoid cabling in parallel.
- Use the recommended cables and adapter boards for connection. It is recommended that shielded cables be used as extension cables to enhance anti-interference capacity.
- Apply single-point grounding for the shield of shielded cables and soldered cables.

Circuit block diagram and wiring diagram



No.	Description
①	Sinking signal input mode
②	Sourcing signal input mode

Caution

- Terminals No.05–20 and No.25–40 are input terminals.
- Terminals No.01, 02, 21, and 22 are unused terminals.
- Terminals No.03 and 04 serve as the common terminal SS1 and are internally connected. Either one or two 24 VDC power supplies can be connected according to the user's selection.
- Terminals No.23 and 24 serve as the common terminal SS0 and are internally connected. Either one or two 24 VDC power supplies can be connected according to the user's selection.

6 Technical Specifications

General specifications

Item	Description
IP rating	IP20
Dimensions (W x H x D)	24 mm x 100 mm x 75 mm
Weight	Approx. 82 g

Power supply specifications

Item	Description
Rated bus input voltage	5 VDC (4.75 VDC to 5.25 VDC)
Rated bus input current	95 mA (typical@5 V)
Rated terminal input voltage	None
Rated terminal input current	None
Rated terminal output voltage	None
Rated terminal output current	None
Hot swap	Not supported

Input specifications

Item	Description
Input type	Digital input
Input mode	Source/Sink
Number of input channels	32
Input voltage class	24 VDC ± 10% (21.6 VDC to 26.4 VDC)
Input current (typical)	4 mA (typical@24 V)
ON-state voltage	> 15 VDC
OFF-state voltage	< 5 VDC
Hardware response time (ON/OFF)	100 μs/100 μs
Software filter time	Supported
Input impedance	Reference: 5.3 kΩ to 5.6 kΩ
Isolation	Yes
Input status display	The input indicator turns on (controlled by software) when the input is in drive state.
Input derating	The module operates at full load (with up to 32 simultaneously activated input channels) at 45°C and operates at 50% of full load (with up to 16 simultaneously activated input channels) at 55°C.

Software specifications

Item	Description
Intput PDO data size	4 bytes
Programming software version	• AutoShop V4.8.1 and later • InoProShop V1.7.3 and later
Software input filter time	No filter, 0.25 ms, 0.5 ms, 1 ms (default), 2 ms, 4 ms, 8 ms, 16 ms, and 32 ms. Two filter parameters can be configured, with one parameter shared by every 16 channels.

Item	Description
Input terminal fault detection and indication	Not supported
Logic level configuration for input channels	Not supported
Independent channel configuration	Not supported
Diagnostic reporting function	Not supported
Stop mode	Outputs are not refreshed, while inputs can be refreshed in the SAFE-OPERATIONAL state.
I/O mapping	Supports bitwise, bytewise and wordwise addressing

7 Environmental Specifications

Item	Specification
Installation/Operating environment	Free from conductive dust, conductive fibers, explosive dust, flammable gases, water mist/greasy dirt, corrosive dusts/gases, strong vibration, and repetitive shock
Altitude	≤ 2000 m
Pollution degree	Level 2
Immunity	2 kV on power supply line (Conforms to IEC 61000-4-4)
Overvoltage category	I
EMC immunity level	Zone B, IEC61131-2
Anti-static rating	Contact discharge +/-6 kV and air discharge +/-8 kV
Vibration resistance	• Application scenario: Tested according to IEC60068-2-6. 3.5 mm amplitude at 5 Hz to 8.4 Hz; 1 g acceleration at 8.4 Hz to 200 Hz; 10 cycles per axis. • Transportation scenario: Tested according to IEC60068-2-64, 0.01 g^2/Hz power spectral density at 5 Hz to 100 Hz; 0.001 g2/Hz power spectral density at 200Hz; 1.14 g G_{rms}
Shock resistance	Application/Transportation scenario: Tested according to IEC60068-2-27; 15 g peak acceleration, 11 ms pulse width, 18 shocks in total in X, Y and Z axes
Operating temperature/ humidity	• Temperature: -20°C to +55°C • Humidity: < 95% RH (30°C), without condensation
Storage temperature/ humidity	• Temperature: -20°C to +60°C • Humidity: < 95% RH (30°C), without condensation
Transportation temperature/humidity	• Temperature: -40°C to +70°C • Humidity: < 95% RH (40°C), without condensation

8 List of Spare Parts

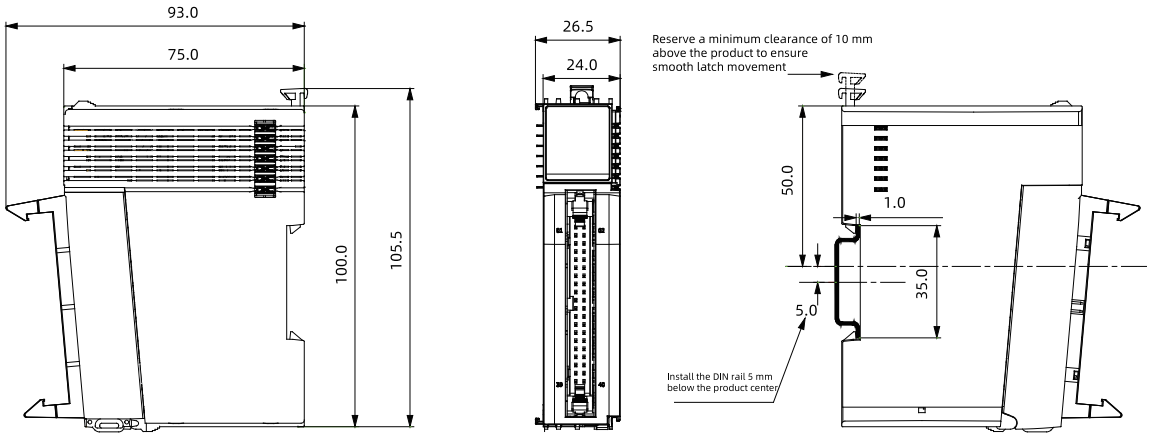
The terminal type for this module is ejector header. After the module is installed, it is connected to the external IO terminal blocks via cables. For ordering data of the terminal blocks and cables, see the following table.

Name	Material code	Specification and model	Description	Remarks
Cable (without a connector)	15310167	XA3210A-40-L0.5M-01	40-pin MIL cable (500 mm)	High density adapter cable, including two 40-pin MIL connectors (500 mm)
	15310166	XA3210A-40-L2M-01	40-pin MIL cable (2000 mm)	High density adapter cable, including two 40-pin MIL connectors (2000 mm)
Terminal block	15020452	T024-K	40-pin MIL-to-screw terminal block	T024-K

9 Dimension Drawing

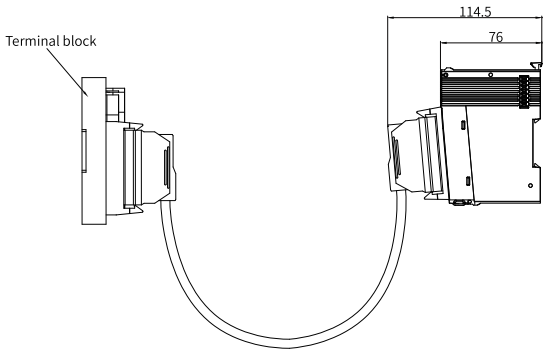
The mounting dimensions (in mm) are shown in the figure below.

Module



Connecting cable

The connecting cable is shown in the figure below (in mm).



Service and Support

Should you encounter a safety accident during the use or operation of the product, or face challenges in operating and maintaining the equipment, which remain unresolved after the relevant documentation is consulted, we provide multiple channels to ensure prompt resolution:

- Channel #1: Contact service@inovance.com.
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