IC676PBI008

Eight-Point IP67 PROFIBUS Digital Input Block

Complete product-page dossier for buyer review, technical screening and quotation preparation.

01 Product overview

IC676PBI008 acquires eight field sensor states at an IP67 machine location and exchanges their point status directly over PROFIBUS-DP.

Sealed field installation

M12 interfaces and protective caps support IP67 remote-I/O mounting.

Eight-point sensor acquisition

Digital inputs and per-channel status are transmitted directly over PROFIBUS-DP.

Integrated supply diagnostics

Module and sensor power faults are reported locally and to the master.

IC676PBI008 is an eight-point VersaMax IP digital input block with a PROFIBUS-DP interface. It uses M12 bus, power and sensor connections for distributed field installation.

The module accepts 24 V DC sensor states, provides protected sensor supply and supports autobaud up to 12 Mbaud. IP67 depends on correct connectors, functional earth and approved caps on every unused port.

Record station address, bus direction, sensor pinout and channel assignments before removal. After replacement, verify supply LEDs, cyclic data, each input state and diagnostic telegrams.

02 Buyer identity

Manufacturer part number	IC676PBI008
Product type	Eight-Point IP67 PROFIBUS Digital Input Block
System / platform	GE VersaMax IP distributed I/O
Lifecycle statement	Legacy installed-base VersaMax IP input block

03 Published technical data

Input points	8
Network protocol	PROFIBUS-DP
Network data rate	Up to 12 Mbaud, autobaud
Module supply	24 V DC nominal
Supply range	18 to 30 V DC

Module current at 24 V	35 mA typical; 100 mA maximum
Sensor-supply current	4.5 mA typical plus sensors; 700 mA maximum
Sensor wiring	2-, 3- and 4-wire
Connection style	M12
Degree of protection	IP67

Operating temperature	-25 to +60 deg C
Storage temperature	-25 to +85 deg C
Station address	1 to 99
Protection	Electronic sensor-supply overload and short-circuit protection

04 Applications / compatibility

Machine sensor collection

Acquire eight proximity, limit or switch signals close to equipment.

IP67 remote I/O

Operate in exposed field locations when sealing rules are met.

PROFIBUS distributed input

Exchange cyclic input data with the master.

Field diagnostics

Use supply, bus and channel status for fault isolation.

05 Product precautions

Record the station address

Set 1-99 before power-up.

Label BUS IN and BUS OUT

Preserve segment order and termination.

Protect every M12 port

Fit the correct cap to unused connectors.

Maintain functional earth

Retain shield and FE bonding.

Check sensor load

Keep total sensor supply within limits.

Test all eight inputs

Verify channel state and master diagnostics.

06 Lifecycle, available unit and technical notes

Lifecycle Status

Legacy installed-base VersaMax IP input block. Preserve the station address and M12 point map, then restore IP67 sealing before applying field power or accepting input status.

Available Unit Details

Offered reference: GE IC676PBI008. Verify the IC676PBI008 marking, PROFIBUS address, eight M12 channel assignments, power connectors and enclosure seals. Confirm the sealed input block and the specifically quoted caps, mating connectors or mounting parts in the quotation.

Technical notes

M12 point map: Record each sensor connector, channel designation and supply assignment before disconnecting the block. Sealing and power: Inspect connector seals, unused-port caps, protective earth and both module and sensor supplies. Field-node acceptance: Confirm network recognition, eight input transitions and supply diagnostics at the master.

07 Engineering FAQ

When does IC676PBI008 accept a newly selected station address?	Set the address from 1 to 99 before energization because the value is accepted at power-up.
How is IP67 protection maintained on IC676PBI008?	Tighten all M12 connections, preserve functional earth and install the correct protective caps on unused ports.
What sensor-supply load limit applies to IC676PBI008?	The documented maximum is 700 mA for the sensor-supply path, in addition to checking each connected sensor.
Why must BUS IN and BUS OUT be preserved for IC676PBI008?	Reversing the segment order or termination arrangement can interrupt downstream PROFIBUS communication.
Which data-rate behavior does IC676PBI008 support?	The interface autobauds up to 12 Mbaud when the network hardware and termination meet the PROFIBUS rules.
How does IC676PBI008 respond to a sensor-supply short?	Electronic protection limits the affected supply and diagnostic information is reported to the master.
Which field-wiring styles can be used with IC676PBI008?	The module supports documented 2-, 3- and 4-wire sensor connections through the correct M12 pinout.
Which network, supply and eight-input results confirm IC676PBI008?	Record master recognition, correct station address, healthy module and sensor power, eight controlled input transitions and clear diagnostics.

08 Quotation and handover

Match the complete marking	Match IC676PBI008, revision and visible labels.
Review the reference	Send the complete IC676PBI008 marking, label photos and required quantity.
Confirm the offer	Review the offered revision, condition, included items and documents for IC676PBI008.
Arrange dispatch	Confirm quantity, dispatch date and delivery details for IC676PBI008 in the quotation.

09 Separate verified listings

Emerson PR6423/10R-010 CON021
Eight-Millimetre Eddy-Current Sensor and Converter Assembly; separate listing, not an automatic substitute.

HIMA Z7127
Eight-Channel Analog Input Front Cable Plug; separate listing, not an automatic substitute.

Request current photographs and written quotation details from Apter Power.
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Quote the complete reference: IC676PBI008