

INDUSTRIAL AUTOMATION PRODUCT

IC676PBI016-EA

Profibus Input Block

Accepts sixteen 24 VDC digital input signals

IDENTITY	VERIFIED VALUE
Manufacturer	GE
System family	GE VersaMax IP distributed I/O system
Part number	IC676PBI016-EA

APTER POWER SALES TEAM

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2

Technical Specifications

Technical values below are limited to the named GE product record.

PARAMETER	TECHNICAL VALUE
Complete order identity	IC676PBI016-EA
Base catalog number	IC676PBI016
Product family	VersaMax IP
Module function	16-point digital input module
Network role	PROFIBUS-DP slave
Bus connection	M12 BUS IN and BUS OUT connectors
Sensor connection	M12; supports 2-, 3- and 4-wire sensors
Nominal module voltage	24 VDC
Module supply range	18 to 30 VDC
Module-supply current at 24 VDC	35 mA typical; 100 mA maximum

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	PROFIBUS-DP master and documented network configuration
Companion hardware	24 VDC module and sensor supplies within the specified range
Field connection	M12 bus, power and sensor cables with functional-earth connection
Primary system function	Accepts sixteen 24 VDC digital input signals
Controlled acceptance duty	Machine sensor collection

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3

System Role and Architecture

Accepts sixteen 24 VDC digital input signals

FUNCTION 1
Accepts sixteen 24 VDC digital input signals

FUNCTION 2
Connects to PROFIBUS-DP through M12 bus connectors

FUNCTION 3
Provides IP67 protection and M12 sensor connections

FUNCTION 4
Reports bus, supply, overload and input-channel status

Matched system components

- PROFIBUS-DP master and documented network configuration
- 24 VDC module and sensor supplies within the specified range
- M12 bus, power and sensor cables with functional-earth connection
- protective caps and the required network termination arrangement

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	PROFIBUS-DP master and documented network configuration
Companion hardware	24 VDC module and sensor supplies within the specified range
Field connection	M12 bus, power and sensor cables with functional-earth connection
Primary system function	Accepts sixteen 24 VDC digital input signals
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4

Applications and Engineering Context

Machine sensor collection

Accepts sixteen 24 VDC digital input signals

IP67 distributed input stations

Connects to PROFIBUS-DP through M12 bus connectors

PROFIBUS-DP remote I/O

Provides IP67 protection and M12 sensor connections

Field diagnostic monitoring

Reports bus, supply, overload and input-channel status

TECHNICAL NOTE

The -EA suffix is retained from exact product-label evidence; the functional and electrical data are taken from GE publication GFK-2293 for base catalog IC676PBI016. Do not assign undocumented suffix-specific electrical differences. Set the 1-99 station address before power-up, preserve FE shielding and cap every unused connector required for IP67 protection.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	IC676PBI016-EA / IC676PBI016-EA recorded
Physical interface	PROFIBUS-DP master and documented network configuration
Companion check	24 VDC module and sensor supplies within the specified range
Functional proof	Accepts sixteen 24 VDC digital input signals
Application test	Machine sensor collection

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5

Engineering Precautions

1

Verify the full IC676PBI016-EA label and assigned PROFIBUS station before work.

2

Place the PROFIBUS master and connected machine process in the approved maintenance state.

3

Isolate the module and sensor supplies before disconnecting any M12 power or input cable.

4

Record the X10/X1 station address, BUS IN/OUT order, input assignments and current LED state.

5

Maintain the FE and shield connections and protect every opened M12 interface from contamination.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
General Electric IC676PBI008	VersaMax IP 8-point PROFIBUS input block	View General Electric IC676PBI008 page
General Electric IC200PWR002G	VersaMax expanded DC power supply	View General Electric IC200PWR002G page
General Electric IC200CPUE05	VersaMax CPU with Ethernet interface	View General Electric IC200CPUE05 page
General Electric IC200PWR102	VersaMax expanded AC power supply	View General Electric IC200PWR102 page

MANUFACTURER SOURCE RECORD

GE VersaMax IP 16 Point Input Module datasheet

GFK-2293, January 2004

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