IC676PBI008

Eight-Point IP67 PROFIBUS Digital Input Block

Engineering reference for system fit, interface boundaries and exact-model technical decisions.

01 System position

Installed role Eight-Point IP67 PROFIBUS Digital Input Block	**Host platform** GE VersaMax IP distributed I/O
Evidence source GE VersaMax IP 8 Point Input Module datasheet GFK-2292	**Identity boundary** Use the complete marking and explicitly documented family relationships only.

02 Functional path

Field / companion side	Installed sensor, load, network, terminal or actuator
Exact product role	IC676PBI008 - Eight-Point IP67 PROFIBUS Digital Input Block
Host-system side	GE VersaMax IP distributed I/O
Decision output	Verified interface, configuration and acceptance boundary

03 Selection-critical relationships

Input points	Map every configured path; the documented reference is 8.
Network protocol	Match the project communication settings to PROFIBUS-DP before enabling exchange.
Network data rate	Match the project communication settings to Up to 12 Mbaud, autobaud before enabling exchange.
Module supply	Use 24 V DC nominal only within the documented module supply boundary.
Supply range	Use 18 to 30 V DC only within the documented supply range boundary.
Module current at 24 V	Design the connected circuit around 35 mA typical; 100 mA maximum; verify at the installed terminals.

04 Engineering data map

Electrical / signal domain

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

Interface / processing domain

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

Environmental / configuration domain

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

05 Diagnostic interpretation matrix

Observed issue involving Input points	Compare the installed condition with 8; isolate field, interface and configuration causes before replacing hardware.

Observed issue involving Network protocol	Compare the installed condition with PROFIBUS-DP; isolate field, interface and configuration causes before replacing hardware.
Observed issue involving Network data rate	Compare the installed condition with Up to 12 Mbaud, autobaud; isolate field, interface and configuration causes before replacing hardware.
Observed issue involving Module supply	Compare the installed condition with 24 V DC nominal; isolate field, interface and configuration causes before replacing hardware.
Observed issue involving Supply range	Compare the installed condition with 18 to 30 V DC; isolate field, interface and configuration causes before replacing hardware.
Observed issue involving Module current at 24 V	Compare the installed condition with 35 mA typical; 100 mA maximum; isolate field, interface and configuration causes before replacing hardware.
Observed issue involving Sensor-supply current	Compare the installed condition with 4.5 mA typical plus sensors; 700 mA maximum; isolate field, interface and configuration causes before replacing hardware.
Observed issue involving Sensor wiring	Compare the installed condition with 2-, 3- and 4-wire; isolate field, interface and configuration causes before replacing hardware.
Observed issue involving Connection style	Compare the installed condition with M12; isolate field, interface and configuration causes before replacing hardware.
Observed issue involving Degree of protection	Compare the installed condition with IP67; isolate field, interface and configuration causes before replacing hardware.
Observed issue involving Operating temperature	Compare the installed condition with -25 to +60 deg C; isolate field, interface and configuration causes before replacing hardware.
Observed issue involving Storage temperature	Compare the installed condition with -25 to +85 deg C; isolate field, interface and configuration causes before replacing hardware.
Observed issue involving Station address	Compare the installed condition with 1 to 99; isolate field, interface and configuration causes before replacing hardware.
Observed issue involving Protection	Compare the installed condition with Electronic sensor-supply overload and short-circuit protection; isolate field, interface and configuration causes before replacing hardware.

06 Engineering evidence record

Complete marking	IC676PBI008 plus visible revision and label details
Installed relationship	Verify the IC676PBI008 marking, PROFIBUS address, eight M12 channel assignments, power connectors and enclosure seals.
Companion boundary	Preserve the station address and M12 point map, then restore IP67 sealing before applying field power or accepting input status.
Configuration authority	Approved project backup, drawing or validated application record
Acceptance evidence	Recorded readings, diagnostic state and controlled functional result

07 Source and applicability ledger

Manufacturer reference	GE VersaMax IP 8 Point Input Module datasheet GFK-2292
Exact-model scope	IC676PBI008
System scope	GE VersaMax IP distributed I/O
Use limit	Family values apply only where the manufacturer relationship is explicit; verify the installed execution.

08 Separate verified listings

GE IC220PBI002	VersaPoint PROFIBUS-DP Network Interface Module; separate listing, not an automatic substitute.
GE IS200TBTCH1CBB	Thermocouple Input Terminal Board; separate listing, not an automatic substitute.
GE IS200TRLYH1BED IS200TRLYH1B	Relay Output Terminal Board; separate listing, not an automatic substitute.

Discuss system fit and exact marking with Apter Power.
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Quote the complete reference: IC676PBI008