# IC676PBI008

Eight-Point IP67 PROFIBUS Digital Input Block

Field installation, controlled replacement and commissioning guide for the exact supplied reference.

## 01 Work boundary

**Asset position**

Record the machine, cabinet, rack, channel or network location.

**Stored energy**

Apply the site isolation and maintenance authorization for connected circuits.

**Configuration evidence**

Retain the installed data needed to restore function and diagnostics.

**Release authority**

Return control only after the responsible team accepts the recorded results.

## 02 Six-stage field sequence

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|---|---|
| 01 | Record the station address and eight M12 point assignments. |
| 02 | Isolate module and sensor supplies. |
| 03 | Inspect seals, caps, protective earth and connector coding. |
| 04 | Restore the block and close every unused port. |
| 05 | Exercise all eight sensor inputs. |
| 06 | Confirm master status and supply diagnostics. |

## 03 Before-removal evidence

| | |
|---|---|
| Exact identity | IC676PBI008 |
| Installed-system position | GE VersaMax IP distributed I/O |
| Interface photograph | Capture labels, connectors, terminal order and cable destinations. |
| Baseline record | Save applicable static values, status, diagnostics and process response. |
| Controlled deviation | Document any mismatch before changing wiring or configuration. |

## 04 Connection and configuration transfer

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|---|---|
| Input points | Installed reference: 8. Record the actual connection or setting, then compare after restoration. |
| Network protocol | Installed reference: PROFIBUS-DP. Record the actual connection or setting, then compare after restoration. |
| Network data rate | Installed reference: Up to 12 Mbaud, autobaud. Record the actual connection or setting, then compare after restoration. |
| Module supply | Installed reference: 24 V DC nominal. Record the actual connection or setting, then compare after restoration. |
| Supply range | Installed reference: 18 to 30 V DC. Record the actual connection or setting, then compare after restoration. |
| Module current at 24 V | Installed reference: 35 mA typical; 100 mA maximum. Record the actual connection or setting, then compare after restoration. |
| Sensor-supply current | Installed reference: 4.5 mA typical plus sensors; 700 mA maximum. Record the actual connection or setting, then compare after restoration. |
| Sensor wiring | Installed reference: 2-, 3- and 4-wire. Record the actual connection or setting, then compare after restoration. |

## 05 Stop / continue decisions

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|---|---|
| Marking or revision differs | Stop and resolve the exact supplied identity before installation. |
| Companion hardware differs | Do not force connection or copy a nearby configuration. |
| Unexpected field energy | Re-establish the isolation boundary and investigate the source. |
| Diagnostics do not clear | Separate field, cable, configuration and hardware causes. |
| Baseline cannot be reproduced | Keep the function under maintenance control and escalate the deviation. |

## 06 Commissioning and acceptance record

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|---|---|
| Identity accepted | Complete marking and installed position agree with the controlled record. |
| Interfaces accepted | Connector, terminal, cable and companion identities match the approved design. |

| | |
|---|---|
| Configuration accepted | Addressing, range, scaling, logic or channel assignments are restored. |
| Static proof accepted | Power, continuity, bias, state or idle diagnostics agree with the baseline. |
| Operating proof accepted | The representative controlled function responds as intended. |
| Handover accepted | Readings, photographs, deviations and authorizing person are recorded. |

## 07 Fault-isolation route

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| No recognition | Check slot or address, supply, keying, connector seating and configuration identity. |
| Bad value or state | Compare field source, wiring, reference, scaling and channel setup. |
| Intermittent response | Inspect shielding, grounding, contacts, cable support and environmental influence. |
| Command without process action | Trace output, field energy, final device and returned feedback separately. |

## 08 As-left evidence worksheet

| | |
|---|---|
| Installed asset reference | Record the machine, cabinet, rack, channel or loop designation. |
| Exact supplied identity | IC676PBI008 plus visible revision, option and serial markings. |
| Companion identities | Record connected terminal, carrier, cable, sensor, actuator or network parts. |
| Before-removal baseline | Retain the applicable voltage, current, state, bias, gap, status or process response. |
| As-left result | Record the same values after restoration under controlled conditions. |
| Configuration record | Identify the approved backup, checksum, address, scale or logic revision used. |
| Deviation and authority | Document differences, disposition and the responsible release authority. |

## 09 Separate verified listings

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|---|---|
| **Emerson A6500-UM** | Universal Two-Channel Machinery Measurement Card; separate listing, not an automatic substitute. |
| **Bender IRDH275-435** | Insulation Monitoring Device; separate listing, not an automatic substitute. |
| **Emerson KJ2003X1-BK1 12P4686X052** | SD Plus Process Controller; separate listing, not an automatic substitute. |
| **Emerson KJ2201X1-BA1 12P3162X092 SLS1508 VS3202** | SLS1508 Safety Logic Solver Assembly; separate listing, not an automatic substitute. |
| **Emerson KJ3202X1-BA1 12P2536X042** | Eight-Channel 24 V DC High-Side Discrete Output Card; separate listing, not an automatic substitute. |
| **Emerson KJ3203X1-BA1 12P3270X032 CE4001S2T2B4** | Thirty-Two-Channel Dry-Contact Discrete Input Assembly; separate listing, not an automatic substitute. |
| **Emerson KJ3241X1-BA1 12P2506X062 VE4006P2** | Two-Port Serial Interface Card Assembly; separate listing, not an automatic substitute. |
| **Emerson PR6423/012-130 CON021** | Eight-Millimetre Eddy-Current Sensor and Converter Assembly; separate listing, not an automatic substitute. |

**Confirm installation scope and commissioning evidence with Apter Power.**
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Quote the complete reference: IC676PBI008