

Siemens 6DS1618-8CA

TELEPERM M testable 48-channel binary input module for AS 235 systems

Product scope

- Forty-eight 24 V DC inputs share a testable PBE architecture for dense process-signal acquisition.
- Three supervised sensor supplies are protected against short circuits and monitored for field-circuit faults.
- Eight or sixteen inputs can be configured for interrupt-driven event handling in the supported station.

Manufacturer source

Siemens TELEPERM M PBE module manual C79000-G8076-C484-04.

This English web copy combines exact-model specifications with detailed function, system role, operating principle, application scenarios and installation boundaries.

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Siemens 6DS1618-8CA

TELEPERM M testable 48-channel binary input module for AS 235 systems

Verified technical specifications

Values below apply to the exact model or nameplate identified on this page; adjacent family variants are not merged.

Binary inputs	48, non-isolated, 24 V DC
Interrupt-capable inputs	8 or 16, selectable by module configuration
Input low level	-30 to +10 V
Input high level	+18 to +33 V
Input delay	Typical 1 ms
Maximum input frequency	100 Hz
Sensor supplies	3 monitored, short-circuit-protected groups
L+ current consumption	Typical 250 mA
5 V bus current	Typical 30 mA
Power dissipation	Typical 6 W
Module fuse	1.6 A fast acting
Unshielded cable length	Up to 400 m
Shielded cable length	Up to 1000 m
Compatible automation system	AS 235 and AS 235 H
Exact-match dimensions	24.3 x 18 x 3 cm
Mass	0.66 kg

Product function and system role

Exact configuration

Siemens 6DS1618-8CA is a TELEPERM M PBE module with 48 testable 24 V DC binary inputs for AS 235 and AS 235 H stations. It combines monitored sensor supplies, simulation facilities and interrupt-capable channels.

The 6DS1618-8CA consolidates forty-eight non-isolated field states into a high-density TELEPERM M input position. Three monitored, short-circuit-protected sensor-supply groups help reveal field power faults, while front indications and simulation functions support commissioning of connected contacts.

Functional role

Signal states pass through defined level detection and optional event logic, while simulation enables controlled channel checks during maintenance.

The CA ordering identity denotes the AS 235-oriented execution and must remain intact when a spare is selected.

Key operating characteristics

- Forty-eight 24 V DC inputs share a testable PBE architecture for dense process-signal acquisition.
- Three supervised sensor supplies are protected against short circuits and monitored for field-circuit faults.
- Eight or sixteen inputs can be configured for interrupt-driven event handling in the supported station.

Operating principle and application guidance

Working principle

Selected channels can generate interrupt events so important plant transitions receive faster controller attention than ordinary cyclic indications. The published voltage thresholds, 1 ms typical delay and 100 Hz input limit define how the CA execution qualifies a 24 V signal before passing it to the automation station.

Before insertion, compare the rack slot, backplane assignment, process plug keying and field return scheme with the installed engineering drawings.

Application scenarios

- AS 235 process stations can collect valve feedback, breaker states and equipment permissives through the module.
- Trip and alarm contacts can use the interrupt-capable subset when faster event treatment is required by the control design.
- Commissioning teams can exercise configured inputs through the documented simulation path without altering plant wiring.

Integration and replacement boundary

This CA version is assigned to AS 235 and AS 235 H system use and is not an interchangeable label variant of the BA module used with AS 220. Rack compatibility, process connector, reference selection and sensor-supply grouping must be reviewed together during replacement planning.

Critical technical check

Use 6DS1618-8CA only where the AS 235/AS 235 H hardware assignment and CA connector coding are confirmed; installing the BA execution by appearance alone can create a system-current or interface mismatch.

Manufacturer evidence used

- Siemens TELEPERM M PBE module manual C79000-G8076-C484-04.
 - Official source: <https://support.industry.siemens.com/cs/attachments/18410282/C79000-G8076-C484-04.pdf>
- Exact product identity checked: Siemens 6DS1618-8CA



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