

Siemens 6DS1618-8BA

TELEPERM M testable 48-channel binary input module for AS 220 systems

Product scope

- The AS 220 execution accepts forty-eight binary inputs with group-selectable 24 V or 48 V contact levels.
- Three sensor-supply groups are monitored and protected to support field-circuit testing.
- Reference selection and interrupt-capable channels let the module match established TELEPERM M signal engineering.

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 6DS1618-8BA

TELEPERM M testable 48-channel binary input module for AS 220 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 contact voltage	24 V or 48 V by group of eight inputs
Input delay	Typical 1 ms
Maximum input frequency	100 Hz
Sensor supplies	3 monitored and short-circuit protected
5 V bus current	Typical 1 mA
L+ current consumption	Typical 250 mA
Power dissipation	Typical 6 W
Module fuse	1.6 A fast acting
Reference selection	M or L reference selectable
Compatible automation system	AS 220 and AS 220 E
Shielded cable length	Up to 1000 m

Product function and system role

Exact configuration

Siemens 6DS1618-8BA is a 48-channel TELEPERM M PBE binary input module for AS 220 and AS 220 E.

Group-selectable contact voltage and supervised sensor supplies support testable discrete field circuits.

6DS1618-8BA receives forty-eight non-isolated contact or electronic-sensor states in AS 220-family automation stations.

The channels are arranged around supervised supply groups, giving maintenance personnel a practical way to distinguish field power faults from normal open or closed process conditions.

Functional role

The card qualifies incoming contact levels, reports stable logic states and supervises the grouped field supply used by connected sensors.

This ordering code identifies the BA hardware for AS 220 and AS 220 E rather than the later AS 235-oriented CA form.

Key operating characteristics

- The AS 220 execution accepts forty-eight binary inputs with group-selectable 24 V or 48 V contact levels.
- Three sensor-supply groups are monitored and protected to support field-circuit testing.
- Reference selection and interrupt-capable channels let the module match established TELEPERM M signal engineering.

Operating principle and application guidance

Working principle

Groups of eight can be assigned to the documented 24 V or 48 V contact level, and the module offers selectable M or L reference behavior. Interrupt capability is available for selected inputs, while a typical 1 ms delay and 100 Hz limit preserve deterministic treatment of clean binary signals.

Record the present bank voltage, M/L reference setting, interrupt assignment and connector pinout before removing the original module.

Application scenarios

- Legacy AS 220 cabinets can aggregate plant permissives and alarm contacts without adding separate input isolators for each point.
- Mixed 24 V and 48 V contact schemes can be accommodated when each eight-channel group is assigned correctly.
- Maintenance simulation can validate the control response before live field devices are returned to service.

Integration and replacement boundary

The BA suffix is a functional selection boundary, not a cosmetic revision mark. A planned exchange should verify AS 220/220 E compatibility, reference polarity, group voltage, sensor return paths and process-connector wiring before the replacement is taken to site.

Critical technical check

For 6DS1618-8BA, set each eight-channel group to the installed 24 V or 48 V contact circuit before applying field power; a wrong group voltage or reference selection can invalidate every state in that bank.

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 6DS1618-8BA



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