

Siemens 6DS1615-8AA

TELEPERM M 48-channel 24/48 V binary input module

Product scope

- Six eight-channel groups accept the documented 24 V or 48 V DC contact systems.
- A 33 ms debounce option and separate chatter suppression help condition unstable mechanical contacts.
- Positive, negative or both interrupt edges can be selected for groups of sixteen channels.

Manufacturer source

Siemens TELEPERM M binary input documentation.

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

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Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	Siemens 6DS1615-8AA	

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Siemens 6DS1615-8AA

TELEPERM M 48-channel 24/48 V binary input module

Verified technical specifications

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

Input channels	48
Field voltage	24 V or 48 V DC
Input low level	-33 to +4.5 V
Input high level	+15 to +33 V
Input delay	Typical 3 ms
Selectable debounce	33 ms
Maximum frequency without debounce	100 Hz
Maximum frequency with debounce	30 Hz
Cable length	400 m unshielded or 1000 m shielded
Operating temperature	0 to 55 deg C
Storage temperature	-40 to +70 deg C
Input grouping	6 groups of 8 inputs
Interrupt selection	Positive, negative or both edges in 16-channel groups
Chatter suppression intervals	250 ms or 500 ms
L+ current at 24 V	Approximately 110 mA at no load
L+ current at 48 V	Approximately 220 mA at no load
5 V bus current	Approximately 40 mA
Power dissipation at 24 V	Approximately 2 W
Power dissipation at 48 V	Approximately 8 W
Input resistance at 24 V	Approximately 39 kohm
Input resistance at 48 V	Approximately 15 kohm
Module fuse	1 A
Board format	233.4 x 160 mm
Front width	30.48 mm (2 SEP)

Product function and system role

Exact configuration

Siemens 6DS1615-8AA is a 48-channel TELEPERM M binary input module for grouped 24 V or 48 V DC contact circuits. Selectable debounce and chatter suppression support mechanically noisy field signals.

The 6DS1615-8AA handles forty-eight binary inputs arranged in six banks of eight, with each bank engineered for the applicable 24 V or 48 V contact system. This dual-voltage capability is paired with explicit voltage thresholds and input-resistance values for each operating level.

Functional role

The module compares each contact level, applies the chosen temporal filter and then transfers the validated state or interrupt event.

This AA execution is the dual-voltage, filtered high-density input card rather than the faster 24 V-only 6DS1601 form.

Key operating characteristics

- Six eight-channel groups accept the documented 24 V or 48 V DC contact systems.
- A 33 ms debounce option and separate chatter suppression help condition unstable mechanical contacts.
- Positive, negative or both interrupt edges can be selected for groups of sixteen channels.

Operating principle and application guidance

Working principle

A selectable 33 ms debounce mode rejects short contact bounce, while 250 ms or 500 ms chatter-suppression intervals can stabilize repeated mechanical transitions. With debounce disabled, clean electronic signals can be accepted at up to 100 Hz; enabling filtering intentionally reduces that response rate.

Document the voltage and filter choice for every group so maintenance does not trade required noise immunity for an unintended faster response.

Application scenarios

- Mechanical limit switches can use the debounce mode to prevent several logical transitions from one physical operation.
- Legacy 48 V signaling circuits can remain in service without external level conversion when grouped correctly.
- Alarm matrices can use chatter suppression to avoid repeated annunciation from unstable field contacts.

Integration and replacement boundary

The choice between speed and noise rejection belongs to the control design and must be preserved during maintenance. Field voltage grouping, interrupt-edge selection, cable type and the increased power dissipation at 48 V should be checked before the module is returned to service.

Critical technical check

Do not copy the 24 V settings blindly when 6DS1615-8AA serves 48 V contacts; confirm each bank voltage and account for the documented rise in module dissipation at the higher level.

Manufacturer evidence used

- Siemens TELEPERM M binary input documentation.
 - Official source: <https://support.industry.siemens.com/cs/attachments/18320581/C79000-G8076-C710-04.pdf>
- Exact product identity checked: Siemens 6DS1615-8AA



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