

Siemens 6DS1600-8AA

TELEPERM Sixteen-Channel Binary Input Module

Product scope

- Acquires sixteen binary contact inputs.
- Supports NO or NC field-contact arrangements.
- Supervises wiring for open- and short-circuit faults.
- Requires common-potential and connector mapping checks.

Manufacturer source

Siemens TELEPERM M manufacturer manual for binary input module 6DS1600-8AA.

This English product record summarizes manufacturer-verified function, operating principle, application and exact-model matching requirements.

Request a fast quote	Product reference	
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Siemens 6DS1600-8AA

TELEPERM Sixteen-Channel Binary Input Module

Manufacturer-source product record

This record consolidates exact-model facts from the manufacturer references listed below. It is included to identify the ordering configuration before the retained source pages.

L+ and PM supply	24 V DC nominal (20 to 33 V DC)
Backplane supply	5 V DC (4.75 to 5.25 V DC)
L+ no-load current	300 mA
PM no-load current	30 mA
5 V bus no-load current	50 mA
Binary inputs	16
Maximum shielded sensor cable	500 m
Sensor supply	20 to 33 V DC
Output-driver load capacity	17 mA maximum; short-circuit proof to ground
Feedback-output current	Less than 3 mA
Static destruction limit	35 V
Dynamic destruction limit	1.5 kV, 1.2/50 us, source resistance 200 ohm
External line-monitoring resistor	47 kohm, +/-5%
Input contact types	Normally open or normally closed
Input reference	Common potential
Line supervision	Wire-break and short-circuit monitoring
System connection	AS 220/230 base or expansion unit, I/O-B bus slot

Official references

- Siemens TELEPERM M manufacturer manual for binary input module 6DS1600-8AA.

Only the exact configuration shown above is represented. Adjacent model variants, optional assemblies and system accessories are not treated as part of this ordering identity.

Function, operating principle and application

The notes below explain how this product is used and how its documented signal, power or control path operates. They remain limited to the manufacturer evidence for this model.

Function

The module collects sixteen contact states for TELEPERM control and monitoring functions.

Operating principle

The board powers and evaluates connected contacts, supervises the field lines for wire break or short circuit, and presents the processed states to the I/O bus.

Application

It is used for switch, interlock and status inputs where a common-potential wiring scheme is required.

Replacement boundary

Match NO/NC configuration, supervision wiring, common reference, X1/X2 connectors and slot addressing before exchange.



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