

# Siemens 6DS1621-8AA

TELEPERM M eight-channel BERO proximity input module

## Product scope

- Eight monitored sensor channels support contact or contactless BERO limit switches.
- Protected 8.5 mA sensor drivers feed field devices over runs documented up to 500 m.
- Separate OK, actual and simulation data distinguish diagnosis, process state and test operation.

## Manufacturer source

Siemens TELEPERM M BERO input documentation.

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

| Request a fast quote                                                                                                                                              | Product reference   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------|
| Email: <a href="mailto:info@apterpower.com">info@apterpower.com</a><br>Phone: +86 18106909650<br><a href="http://apter.com/inquiry.php">apter.com/inquiry.php</a> | Siemens 6DS1621-8AA |                                                                                       |

The enclosed manufacturer pages are reproduced without alteration to technical content. External interactive links and unrelated pages are excluded from this web-optimized copy.

## Siemens 6DS1621-8AA

TELEPERM M eight-channel BERO proximity 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        | 8 non-isolated BERO 2RF inputs                   |
| Compatible stations   | AS 220 and AS 230                                |
| Supply voltage        | 20 to 33 V DC                                    |
| Channel indication    | 16 LEDs                                          |
| Sensor monitoring     | 00/11 line-state evaluation                      |
| Sensor simulation     | Supported                                        |
| L+ current            | Approximately 130 mA                             |
| 5 V current           | Approximately 30 mA                              |
| Additional current    | Approximately 60 mA according to operating state |
| Maximum cable length  | 500 m                                            |
| Driver protection     | Short-circuit-to-ground protection               |
| Input device type     | Contact or contactless BERO limit switches       |
| Input data groups     | OK, actual and simulation data                   |
| Open-contact level    | -33 to -20 V or 0 V, selectable                  |
| Closed-contact level  | +20 to +33 V                                     |
| Sensor driver current | 8.5 mA, short-circuit proof                      |
| Dynamic voltage limit | +1.5 kV, 1.2/50 us impulse                       |
| Board format          | 233.4 x 160 mm                                   |
| Front width           | 30.48 mm (2 SEP)                                 |

## Product function and system role

### Exact configuration

Siemens 6DS1621-8AA is an eight-channel TELEPERM M input module for contact or contactless BERO 2RF limit-switch circuits. It combines protected sensor drivers, line-state diagnostics and front simulation.

6DS1621-8AA interfaces eight BERO proximity or limit-switch channels to compatible AS 220 and AS 230 stations. Each sensor path receives a short-circuit-proof 24 V driver so the module can supervise a defined field circuit rather than merely reading a dry contact.

### Functional role

It powers the field circuit, evaluates paired line conditions and exposes a diagnostic result alongside the live input state.

The module is an intelligent BERO interface for AS 220/230, not a general-purpose eight-point contact card.

### Key operating characteristics

- Eight monitored sensor channels support contact or contactless BERO limit switches.
- Protected 8.5 mA sensor drivers feed field devices over runs documented up to 500 m.
- Separate OK, actual and simulation data distinguish diagnosis, process state and test operation.

## Operating principle and application guidance

### Working principle

The electronics evaluate the documented 00 and 11 line states to separate normal switching information from wiring or sensor faults. Three data groups—OK, actual and simulation—give the control system distinct diagnostic, process and test information for every channel.

Use the original wiring diagram to retain sensor polarity, open-level selection and front simulation behavior during commissioning.

### Application scenarios

- Machine position sensors can be monitored with additional visibility into open or faulty field wiring.
- Conveyor presence detection can feed both process-state and channel-health information to the TELEPERM controller.
- Maintenance staff can simulate a channel at the module while keeping diagnostic and actual-state data distinguishable.

### Integration and replacement boundary

This specialized circuit must be replaced with the same BERO interface concept. The sensor wiring, open-contact reference selection, 500 m cable limit, connector pinout and simulation state all need confirmation before the channel is released to the process.

### Critical technical check

Connect 6DS1621-8AA only to the documented BERO 2RF circuit; conventional proximity wiring may not reproduce the module's 00/11 diagnostic states or protected sensor-supply behavior.

### Manufacturer evidence used

- Siemens TELEPERM M BERO input documentation.
  - Official source: <https://support.industry.siemens.com/cs/attachments/18320581/C79000-G8076-C710-04.pdf>
- Exact product identity checked: Siemens 6DS1621-8AA

# Ready to source this part?

Ask for availability, pricing and delivery options.

## Request a fast quote

Include the product title and any required part number or quantity.

EMAIL

info@apterpower.com

PHONE

+86 18106909650



SCAN TO CHAT ON WHATSAPP

REQUEST A QUOTE

PRODUCT: Siemens 6DS1621-8AA

Manufacturer pages are reproduced without alteration to technical content.

Apter Power is not an authorized distributor, reseller or representative of the products featured.