

125768-01

RIM I/O Module with RS232/RS422 Interface

Bently Nevada 125768-01 is the RS232/RS422 rear I/O module for a 3500/20 Rack Interface Module. It connects host software to the rack for configuration and machinery-data retrieval.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

3500/20 Rack Interface System

PART

125768-01

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PRODUCT OVERVIEW

Bently Nevada 125768-01 is the RS232/RS422 rear I/O module for a 3500/20 Rack Interface Module. It connects host software to the rack for configuration and machinery-data retrieval.

- 1

Provides selectable RS232 or RS422 host communication for the 3500/20 RIM
- 2

Carries proprietary rack configuration and data-retrieval traffic
- 3

Supports long-distance RS422 and short-distance RS232 or modem connections
- 4

Exposes Trip Multiply, Alarm Inhibit, Rack Reset and rack-OK interfaces

SYSTEM COMPONENTS

3500 rack rear slot

3500/20 standard or TMR RIM

Host computer or external modem

RS232 or RS422 communication cable

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
3500/40M 176449-01	Four-channel Proximitor monitor	Open product page
125680-01	Internal-termination Proximitor I/O module	Open product page
125720-01	Four-channel relay output module	Open product page
125760-01	3500 Data Manager I/O module	Open product page
128240-01	External-termination Prox/Seismic I/O	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Serial interfaces	RS232; RS422; external modem
Protocol	Bently Nevada proprietary
Maximum serial data rate	38.4 kbaud
RS232 maximum cable length	30 m
RS422 maximum cable length	1200 m
External modem cable length	3 m typical
Rack connector interface	RS422
Rack connector data rate	38.4 kbaud maximum

PARAMETER	VALUE
Rack addresses	63 selectable
System-contact current	Less than 1 mA dc
OK relay rating	5 A at 24 Vdc or 120 Vac
Operating temperature	-30 to +65 degC
Storage temperature	-40 to +85 degC
Humidity	95% non-condensing
Rear rack space	1 full-height slot

TECHNICAL NOTE

Set the interface selector to the installed physical layer, verify rack address uniqueness and confirm host communication at the documented rate before enabling remote configuration access.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Local rack configuration

Provides selectable RS232 or RS422 host communication for the 3500/20 RIM

Long-distance RS422 host link

Carries proprietary rack configuration and data-retrieval traffic

Multi-rack communications chain

Supports long-distance RS422 and short-distance RS232 or modem connections

External modem service connection

Exposes Trip Multiply, Alarm Inhibit, Rack Reset and rack-OK interfaces

PRODUCT PRECAUTIONS

- 1 Verify 125768-01 and its paired 3500/20 RIM before changing any serial connection.
- 2 Place the configuration keylock in the approved state before service work.
- 3 Record the interface selection, rack address and host cable destination.
- 4 Maintain RS232 and RS422 cable lengths within their published limits.
- 5 Use the rack connector only for the documented RS422 daisy-chain path.
- 6 Isolate Trip Multiply, Alarm Inhibit and Rack Reset contacts before rewiring.
- 7 Confirm OK relay behavior and CONFIG OK indication after module insertion.
- 8 Test rack configuration and data retrieval from the actual host workstation.

ENGINEER FAQ

Q1 How can 125768-01 be commissioned for local rack configuration?

Apply a controlled input or command, review the model-specific diagnostics and prove the expected measurement, indication and protection response before releasing the channel.

Q2 What technical value deserves special attention when checking 125768-01?

Verify the published rs422 maximum cable length value of 1200 m against the installed configuration and test record.

Q3 Can 125768-01 be exchanged with another 3500 I/O or monitor execution?

Only when the complete part number, termination style, transducer or interface type and approved rack configuration match the installed duty; do not transfer settings from an adjacent model.

Q4 What evidence should be retained after 125768-01 returns to service?

Retain the full 125768-01 identity, as-left connections, restored configuration, final diagnostics and the controlled functional-test result for long-distance rs422 host link.

Q5 Which rack hardware must be matched before installing 125768-01?

Match 125768-01 to the documented 3500 rack rear slot and 3500/20 standard or TMR RIM; confirm the front/rear slot pairing and the complete physical marking before connection.

Q6 What as-found information should an engineer record before removing 125768-01?

Record every channel or port assignment, connector identity, configured function, cable tag and diagnostic state associated with 125768-01.

Q7 How should 125768-01 be isolated before field wiring is disturbed?

Place the protected machine in its approved maintenance state, isolate rack and field energy applicable to Host computer or external modem, and prove the terminals safe before disconnection.

Q8 Which configuration should be restored after replacing 125768-01?

Restore the approved 3500/20 Rack Interface System slot, channel or interface configuration and verify that every connected circuit retains its original assignment.