125768-01

RIM I/O Module with RS232/RS422 Interface

Bently Nevada 125768-01 is the rear I/O module for a 3500/20 Rack Interface Module, providing selectable RS232 or RS422 host communication. It supports rack configuration and machinery-information retrieval through the Bently Nevada proprietary protocol.

BRAND	Bently Nevada	ORIGIN	USA
MODEL	125768-01	FAMILY	3500/20 Rack Interface Module
HS CODE	8537101190	SHIP FROM	Xiamen, Fujian, China
DIMENSIONS		PRODUCT	RIM I/O Module with RS232/RS422 Interface

MANUFACTURER SOURCE RECORD

3500/20 Rack Interface Module Datasheet
Baker Hughes / Bently Nevada publication 141531 Rev. D

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Product Overview

SYSTEM FUNCTION

Bently Nevada 125768-01 is the rear I/O module for a 3500/20 Rack Interface Module, providing selectable RS232 or RS422 host communication. It supports rack configuration and machinery-information retrieval through the Bently Nevada proprietary protocol.

SELECTABLE RS232 OR RS422 HOST INTERFACE

Verified model-specific feature or controlled record item.

38.4 KBAUD MAXIMUM SERIAL COMMUNICATION

Verified model-specific feature or controlled record item.

UP TO 1200 M RS422 CABLE LENGTH

Verified model-specific feature or controlled record item.

FULL-HEIGHT REAR-SLOT INSTALLATION

Verified model-specific feature or controlled record item.

TECHNICAL NOTE

Pair 125768-01 with the documented 3500/20 RIM and set its RS232/RS422 selector to match the installed physical layer. Verify rack address, cable length, shield and host communication before enabling remote configuration.

Technical Data and Acceptance

PARAMETER	VERIFIED VALUE
Country of origin	USA
HS code	8537101190
Ship from	Xiamen, Fujian, China
Interface	RS232 or RS422
Protocol	Bently Nevada proprietary
Maximum data rate	38.4 kbaud
RS232 cable length	30 m maximum
RS422 cable length	1200 m maximum
Operating temperature	-30 to +65 degC
Storage temperature	-40 to +85 degC
Humidity	95% non-condensing
Rack space	1 full-height rear slot

Acceptance Path

1 IDENTITY

Record 125768-01.

2 INTERFACE

Document mounting and connections.

3 CONFIGURATION

Confirm system and channel.

4 PROOF

Complete functional acceptance.

ENGINEERING BOUNDARY

Use the exact ordering-code values shown here together with the physical marking and installed-system record. Confirm mounting, connections and the configured channel before release.

Applications and Precautions

LOCAL RACK CONFIGURATION

Provides a serial path for approved 3500 rack setup and retrieval.

LONG-DISTANCE RS422 HOST LINK

Extends the manufacturer host connection to the published 1200 m maximum.

RS232 SERVICE CONNECTION

Supports a direct host interface within the 30 m published limit.

3500/20 INSTALLED-BASE MAINTENANCE

Restores the exact rear I/O execution behind the documented RIM.

Controlled Checks

NO.	CHECK
1	Read the 125768-01 rear-module marking before removal.
2	Match the rear slot to the installed 3500/20 RIM.
3	Record the selector position and every connector pin assignment.
4	Keep RS232 cable length within 30 m.
5	Keep RS422 cable length within 1200 m and verify termination practice.
6	Preserve shield, signal-common and rack-ground routing.
7	Confirm the rack address is unique before reconnecting host software.
8	Prove configuration access and data retrieval before release.

FAQ, Related Products and Source

QUESTION	ANSWER
Which front module must 125768-01 accompany?	It is the RS232/RS422 I/O module for the 3500/20 Rack Interface Module; verify the documented front/rear pairing.
How is RS232 or RS422 selected on 125768-01?	Use the I/O module's physical RS232/RS422 selector and record its as-found position before disturbance.
What is the maximum serial rate for 125768-01?	The official 3500/20 datasheet specifies 38.4 kbaud maximum with automatic baud capability.
What distance limit governs an RS232 link from 125768-01?	The manufacturer limit is 30 metres or 100 feet.
How far may the RS422 interface on 125768-01 run?	The published RS422 cable-length limit is 1200 metres or 4000 feet.
Does 125768-01 use a general-purpose Modbus protocol?	No. The official record identifies the communication protocol as Bently Nevada proprietary.
What contact current should be expected at the system contacts on 125768-01?	Trip Multiply, Alarm Inhibit and Rack Reset use dry contacts to common with less than 1 mA dc maximum current.
What should a host-link acceptance test for 125768-01 prove?	Confirm selector position, rack address, serial rate, configuration access, machinery-data retrieval and a fault-free final rack state.

Related Bently Nevada Products

MODEL	RELATION	APTER POWER PAGE
135826-01	Bently Nevada machinery-monitoring component	View 135826-01
136188-01	Bently Nevada machinery-monitoring component	View 136188-01
138708-01	Bently Nevada machinery-monitoring component	View 138708-01
135489-03	Bently Nevada machinery-monitoring component	View 135489-03
135489-04	Bently Nevada machinery-monitoring component	View 135489-04
135613-01	Bently Nevada machinery-monitoring component	View 135613-01
135613-01-01	Bently Nevada machinery-monitoring component	View 135613-01-01
135813-01	Bently Nevada machinery-monitoring component	View 135813-01

MANUFACTURER SOURCE RECORD

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