

INDUSTRIAL MACHINERY MONITORING PRODUCT

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.

IDENTITY	VERIFIED VALUE	TRADE	VERIFIED VALUE
Manufacturer	Bently Nevada	Country of origin	USA
Model	125768-01	HS code	8537101190
Product	RIM I/O Module with RS232/RS422 Interface	Ship from	Xiamen, Fujian, China
Family	3500/20 Rack Interface Module	Dimensions	

DOCUMENT SCOPE

Exact model identity, supported configuration data, installation checks, applications, precautions and controlled acceptance records.

MODEL-SPECIFIC ENGINEERING 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.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



125768-01

Verified Product Record

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

Installation Boundary

ENGINEERING BOUNDARY

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.

CHECK	REQUIRED RECORD
Identity	125768-01
Installed arrangement	Position, mating hardware, cable and termination
Configuration	Associated module or monitor channel
Acceptance	Diagnostics and controlled functional proof

SOURCE BOUNDARY

Baker Hughes / Bently Nevada publication 141531 Rev. D. Apply only the exact ordering-code values shown in this document and verify the installed marking before work.

System Role and Verification

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.

IDENTITY

Record 125768-01 from the physical marking.

INTERFACE

Document every mating part, connector and cable before disturbance.

CONFIGURATION

Confirm the associated system and channel using manufacturer records.

ACCEPTANCE

Restore the documented arrangement and prove operation before release.

Controlled Installation Checklist

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.

Applications and Model-Specific FAQ

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.

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.

Precautions and Related Products

NO.	PRECAUTION
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.
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Related Bently Nevada Products on Apter Power

MODEL	RELATION	APTER POWER PAGE
128718-01	Bently Nevada machinery-monitoring component	View 128718-01
129478-01	Bently Nevada machinery-monitoring component	View 129478-01
133434-01	Bently Nevada machinery-monitoring component	View 133434-01
133819-01	Bently Nevada machinery-monitoring component	View 133819-01
133827-01	Bently Nevada machinery-monitoring component	View 133827-01
135137-01	Bently Nevada machinery-monitoring component	View 135137-01
135473-01	Bently Nevada machinery-monitoring component	View 135473-01
135489-01	Bently Nevada machinery-monitoring component	View 135489-01

MANUFACTURER SOURCE RECORD

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

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