HUBBELL®
Control Solutions

NX DISTRIBUTED™ INTELLIGENCE

Project Name

Catalog No.   Date

Hubbell Control Solutions' RJ45 Adapter is designed to be used with HCS low voltage occupancy and daylight sensors. The adapter allows connectivity of these sensors to an NX SmartPORT™ module or Room Controller using a standard CAT5 cable.

Product Features

- Supports NX Distributed Intelligence Lighting Controls
- Plenum rated
- Low voltage device: 24VDC
- Five-year limited warranty

Compliance and Certification

c(UL)us LISTED

Ordering Information

RJ45ADAPTER

MODEL

RJ45ADAPTER	RJ45 Adapter for NX Occupancy and Daylight Sensors

NXRJSPLITTER

MODEL

NXRJSPLITTER	NX RJ45 Splitter 2-way Female for CAT5, used with NX Occupancy Sensors and NX Daylight Sensors *

* Not Plenum rated - To be installed in a sealed junction box

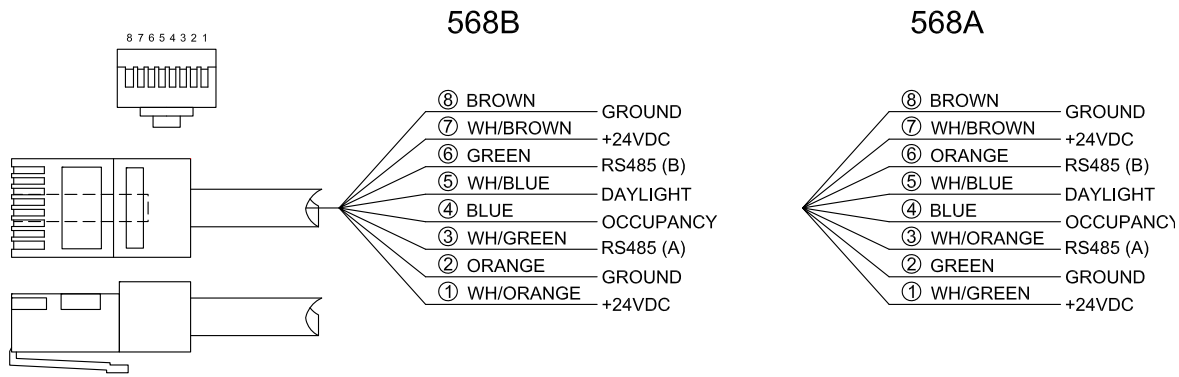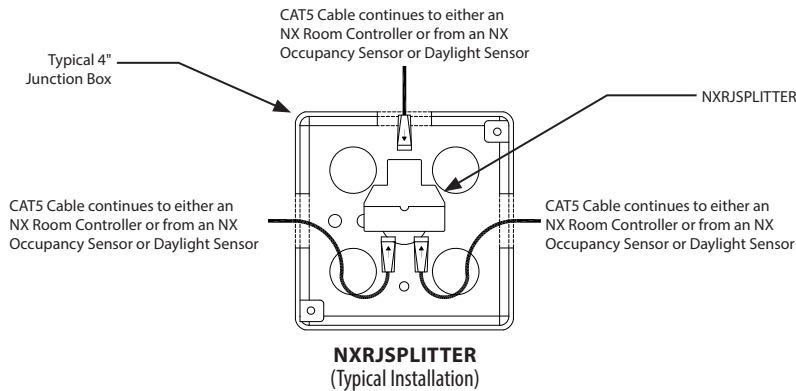| MODEL	
CAT5-3IN-OR-PLENUM	Pre-terminated CAT5 Cable, Plenum Rated, 3in, Orange
CAT5-3F-OR-PLENUM	Pre-terminated CAT5 Cable, Plenum Rated, 3ft, Orange
CAT5-10F-OR PLENUM	Pre-terminated CAT5 Cable, Plenum Rated, 10ft, Orange
CAT5-25F-OR PLENUM	Pre-terminated CAT5 Cable, Plenum Rated, 25ft, Orange
CAT5-50F-OR PLENUM	Pre-terminated CAT5 Cable, Plenum Rated, 50ft, Orange
CAT5-100F-OR PLENUM	Pre-terminated CAT5 Cable, Plenum Rated, 100ft, Orange

NXRJSPLITTER

SPECIAL NOTES:

1. When cutting CAT5 cable to specific lengths, the cable pin out is as follows:

PIN NO.	WIRE COLOR
1	WHITE with ORANGE STRIPE
2	ORANGE
3	WHITE with GREEN STRIPE
4	BLUE
5	WHITE with BLUE STRIPE
6	GREEN
7	WHITE with BROWN STRIPE
8	BROWN

HUBBELL®

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Wiring Information

Typical 4" Junction Box

CAT5 Cable continues to either an NX Room Controller or from an NX Occupancy Sensor or Daylight Sensor

NXRJSPLITTER

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NXRJSPLITTER
(Typical Installation)

568B

Pin	Color	Signal
⑧	BROWN	GROUND
⑦	WH/BROWN	+24VDC
⑥	GREEN	RS485 (B)
⑤	WH/BLUE	DAYLIGHT
④	BLUE	OCCUPANCY
③	WH/GREEN	RS485 (A)
②	ORANGE	GROUND
①	WH/ORANGE	+24VDC

568A

Pin	Color	Signal
⑧	BROWN	GROUND
⑦	WH/BROWN	+24VDC
⑥	ORANGE	RS485 (B)
⑤	WH/BLUE	DAYLIGHT
④	BLUE	OCCUPANCY
③	WH/ORANGE	RS485 (A)
②	GREEN	GROUND
①	WH/GREEN	+24VDC

8 7 6 5 4 3 2 1

Note: The NX Smart Port Connector pin numbering scheme matches that of the standard RJ-45 connector system. However, the pin assignment is different. There are two standard CAT5 color codes, 568A and 568B. HCS recommends using 568B but there may be cases in the field where the cable is 568A. It is important to match the colors and wire pairings on both sides of the cable.

General Specifications

Electrical	RJ45ADAPTER: 4 Terminal Connectors 　　　　Red: +24V 　　　　Blue: Occupancy Sensor Input 　　　　Yellow: Photocell/Daylight Sensor Input 　　　　Black: Common 　　Class 2 device Max Cable Length Supported: 300 ft. from device to control module
Plenum Rated	RJ45ADAPTER and Cables are UL2043 compliant (Plenum rated) NXRJSPLITTER is not Plenum rated
Construction	RJ45ADAPTER Material: SABIC NORYL HS2000X
Dimensions	RJ45ADAPTER: 2.168"L x 1.093"W x 0.995"H NXRJSPLITTER: 1.322"L x 1.488"W x 0.826"H
Weight	RJ45ADAPTER: 0.8 oz
Color	RJ45ADAPTER: Gray NXRJSPLITTER: White
Mounting	Adapter may be mounted using a zip-tie (not included) or with a #8 or #10 mounting screw (not included). NXRJSPLITTER is to be installed in an Electrical Junction Box (not included)
Certifications	cULus listed
Warranty	Five-year limited