

44B Short-Range Background and Foreground Suppression Sensors to the 42JT VisiSight™ Miniature Photoelectric Sensors

Why Upgrade or Migrate

While the Allen-Bradley® 44B Short-Range Background and Foreground Suppression Sensor has been a valuable part of our portfolio, this product will no longer be available for sale after April 1, 2017.* Now is the time to migrate to the 42JT VisiSight™ Miniature Photoelectric Sensor.

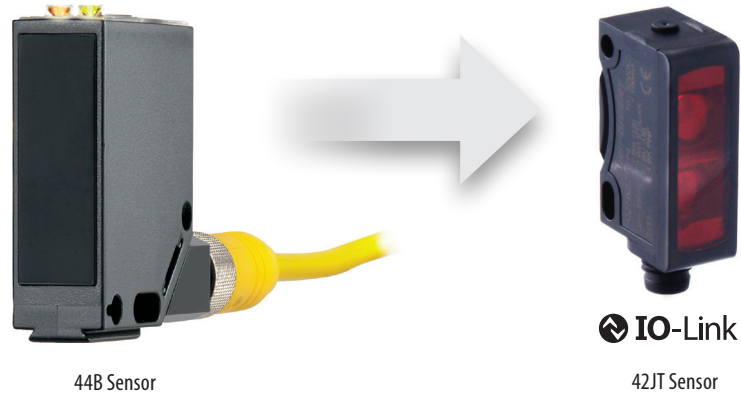
The 42JT VisiSight Background Suppression replacement sensor offers a 400 mm sensing range for a 90% and 250 mm for a 6% black target when compared to the 300 mm offered in the 44B Background Suppression. The tactile push button of the 42JT makes it easy for the operator to change the sensing range as well as locking the push button to prevent undesired change of settings.

The 42JT sensors are IO-Link enabled which allows them to easily integrate with The Connected Enterprise, delivering data from the sensor directly into a control system in a cost-efficient and easy-to-use manner via an IO-Link master and EtherNet/IP.™

42JT Features and Benefits

- IO-Link enabled sensors offer advanced features and diagnostics including Automatic Device Configuration, multiple profiles, trending, descriptive tags and device specific parameters
- Unique “auto PNP/NPN” output reduces stocking cost and simplifies installation and maintenance
- Teach push button for sensitivity and LO/DO selection
- IP69K and ECOLAB rated enclosure
- Visible red LED light source for ease of alignment

* Discontinued date may be subject to change.



44B Sensor

IO-Link

42JT Sensor

Identify, Mitigate and Help Eliminate the Risk of Automation Obsolescence

In today's economy, it is necessary to have migration solutions that help you to achieve increased productivity and lessen your risk of maintaining your legacy equipment. You need to work with a supplier that has the product, service and industry knowledge to partner with you on an upgrade strategy that will help you maximize your competitive advantage.

Rockwell Automation and its partners will work with you to outline a plan that fits your application needs and long-term goals. We can help you migrate all at once or in phases, at the pace that is comfortable for you and fits your budget. With your goals in mind, Rockwell Automation has developed a migration strategy that will allow you to quickly and easily migrate from 44B photoelectric sensors to the 42JT VisiSight photoelectric sensors.

Product Lifecycle

Use the [Product Lifecycle Status](#) search tool on the web to find specific lifecycle information by catalog number.



- ACTIVE: Most current offering within a product category.
- ACTIVE MATURE: Product is fully supported, but a newer product or family exists. Gain value by migrating.
- END OF LIFE: Discontinued date announced – actively execute migrations and last time buys. Product generally orderable until the discontinued date.¹
- DISCONTINUED: New product no longer manufactured or procured.² Repair/exchange services may be available.

¹ - Outages on specific items may occur prior to the Discontinued date.
² - Limited stock may be available in run-out mode, regionally.

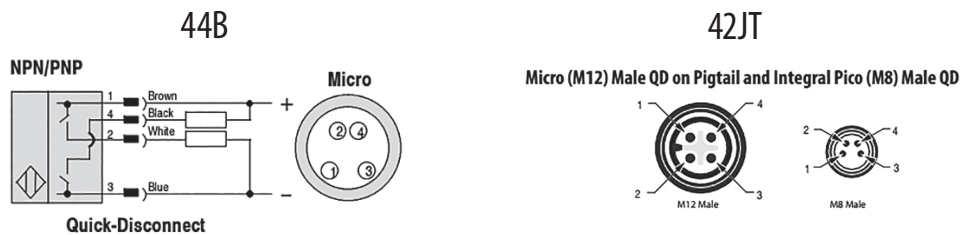


44B Sensors Compared to 42JT Sensors



Specifications	44B	42JT
Certifications	cULus, CE	cULus, CE
Operating Environment	NEMA 3, 4X, 6P, 12, 12 (IP67)	IP67, IP69K
Vibration	10...55 Hz, 1 mm amplitude, meets or exceeds IEC 60947-5-2	10...55 Hz, 1 mm amplitude, meets or exceeds IEC 60947-5-2
Shock	30 g with 1 ms pluse duration, meets or exceeds IEC 60947-5-2	30 g with 1 ms pulse duration, meets or exceeds IEC 60947-5-2
Operating Temperature	-20...+70° C (-4...+158° F)	-20...+60° C (-4...+140° F)
Light Source	Infrared 880 nm	Red 660 nm
Sensing Distance	300 mm	1...400 mm (0.04...15.7)
Voltage	20 - 30V DC	10...30V DC
Current Consumption	20 mA max	30 mA maximum
Response Time	1 ms maximum	0.5 ms maximum
Output Type	NPN and PNP	Auto PNP/NPN or IO-Link

Wiring Diagrams



The 44B catalog numbers being discontinued are listed in the table with a cross reference to the recommended 42JT catalog numbers.

44B Short-Range Sensor Catalog Number	42JT VisiSight Preferred Replacement Catalog Number
44BSB-1JBA1-D4 300 mm, background suppression, light operate	42JT-B2LAT2-F4 400 mm, background suppression
44BSB-1KBA1-D4 300 mm, background suppression, light operate	42JT-B2LAT2-F4 400 mm, background suppression
44BSN-1JBA1-D4 300 mm, foreground suppression, light operate	N.A. (Future release)
44BSN-1KBA1-D4 300 mm, foreground suppression, dark operate	



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On-Line Product Directory

Our portfolio of motor protection devices are designed to protect your manufacturing investments.
<http://ab.rockwellautomation.com/Sensors-Switches/Photoelectric-Sensors>



Product Selection Toolbox

Our powerful range of product selection and system configuration tools assist you in choosing and applying our products.
www.rockwellautomation.com/en/e-tools



Why Upgrade or Migrate

To better understand your options, contact your local authorized Allen-Bradley distributor or Rockwell Automation sales office or visit: www.rockwellautomation.com/go/lifecycle and www.rockwellautomation.com/go/migration

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www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846