

# FFRS-BN-1E Cut Sheet



AutomationDirect photoelectric sensor, tubular, threaded, 316L stainless steel, diffuse with background suppression, 30-130mm sensing distance, complementary light-on/dark-on, NPN, teach-in button, 1 kHz switching frequency, 4-pin M12 quick-disconnect.

For complete product information, please see this item on our store at the following link:



<https://www.automationdirect.com/pn/FFRS-BN-1E>

## Technical Specifications

<b>Brand</b>	AutomationDirect
<b>Item</b>	Photoelectric sensor
<b>Shape</b>	Tubular
<b>Barrel Type</b>	Threaded
<b>Housing Size</b>	18mm diameter x 82.5mm body
<b>IP Rating</b>	IP69K
<b>Application</b>	For harsh duty / food and beverage applications.
<b>Housing Material</b>	316L stainless steel
<b>Sensing Method</b>	Diffuse with background suppression
<b>Operating Voltage</b>	10-30 VDC
<b>Number of Wires</b>	4
<b>Switching Output</b>	NPN
<b>Sensing Distance</b>	30-130mm
<b>Sensitivity</b>	Teach-in button
<b>Operation Mode</b>	Complementary light-on/dark-on
<b>Switching Frequency</b>	1 kHz
<b>Light emission</b>	Visible red
<b>Connection</b>	4-pin M12 quick-disconnect
<b>Includes</b>	Mounting hardware
<b>Additional Information</b>	Purchase cable separately

## Agency Approvals

<b>UL Listed File #</b>	E187310
<b>UL Recognized File #</b>	None
<b>UL Hazardous File #</b>	None
<b>CE</b>	<a href="#">View CE declarations</a>
<b>CSA File #</b>	None
<b>RoHS Status</b>	Yes (See CE Doc)
<b>EU REACH</b>	<a href="#">View EU REACH document</a>