

# TRD-S500-BD Cut Sheet



JTEKT TRD-S series incremental (quadrature) rotary encoder, light duty, 12-24 VDC, radial exit, NPN open collector output, 500 ppr, 6mm solid shaft, 38mm diameter body, IP40, 6.5ft/2m cable length, pigtail.

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



<https://www.automationdirect.com/pn/TRD-S500-BD>

## Technical Specifications

<b>Brand</b>	JTEKT
<b>Item</b>	Encoder
<b>Series</b>	TRD-S
<b>Feedback Type</b>	Incremental (quadrature)
<b>Encoder Type</b>	Rotary
<b>Duty Rating</b>	Light duty
<b>Voltage Rating</b>	12-24 VDC
<b>Exit Orientation</b>	Radial
<b>Encoder Output Type</b>	NPN open collector
<b>Encoder Resolution</b>	500 ppr
<b>Shaft Type</b>	Solid
<b>Shaft Diameter</b>	6mm
<b>Radial Shaft Load</b>	20N
<b>Axial Shaft Load</b>	10N

<b>Frequency Response</b>	200 kHz
<b>Speed Rating</b>	6000rpm
<b>Flange Mount</b>	No
<b>Encoder Body Diameter</b>	38mm
<b>Housing Material</b>	Aluminum
<b>IP Rating</b>	IP40
<b>Protection Type(s)</b>	<ul style="list-style-type: none"><li>• short circuit (between each output and common)</li><li>• reverse polarity</li></ul>
<b>Cable Length</b>	6.5ft/2m
<b>Cable Diameter Size</b>	5mm
<b>Wire Size</b>	26 AWG
<b>Connector Type</b>	Pigtail
<b>Includes</b>	Mounting hardware

## Agency Approvals

<b>UL Listed File #</b>	E189395
<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>

## Dimensional Drawings



2D Drawing PDF Link:  
<https://cdn.automationdirect.com/static/drawings/TRD-S500-BD.pdf>  
See store item page for other formats.