FT300-S
FORCE TORQUE SENSOR

THE PIONEER OF COBOT FORCE TORQUE SENSORS

• Plug + Play for quick and easy integration
• Fully metallic hardware suited for industrial needs
• Wear-free sensing technology means no calibration needed, no production downtime
• High resolution and no loss of precision over time
• Force Copilot programming software included

Insertion  Pick & Place  Assembly  Quality Testing  Machine Tending  Finishing

IP65 RATING
DESIGNED FOR
APPLICATIONS
CLEAN, HARSH OR DIRTY

START PRODUCTION FASTER
FORCE COPILOT MAKES IT EASY

You don’t need a background in robotics to use the FT 300-S Force Torque Sensor. Make force control easy. Enter your task parameters, press play, and perform your application. Force Copilot does the hard work for you!

DESIGNED WITH THE APPLICATIONS IN MIND

Transform your production process by automating the most advanced force-sensitive applications on the market.

Program complex robot movements in minutes—no robotics expertise needed. The result is a strong and flexible robot cell.

### SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>FX</th>
<th>FY</th>
<th>FZ</th>
<th>MX</th>
<th>MY</th>
<th>MZ</th>
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</thead>
<tbody>
<tr>
<td>Measuring range</td>
<td>± 300 N</td>
<td></td>
<td></td>
<td>± 30 Nm</td>
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<tr>
<td>Overload capacity</td>
<td>500%</td>
<td></td>
<td></td>
<td>500%</td>
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<tr>
<td>Signal noise</td>
<td>0.1 N</td>
<td>0.005 Nm</td>
<td>0.003 Nm</td>
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<tr>
<td>Recommended threshold for contact detection</td>
<td>1 N</td>
<td>0.02 Nm</td>
<td>0.01 Nm</td>
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<tr>
<td>Tool deflection at maximum measurable load</td>
<td>0.01 mm</td>
<td>0.17 deg</td>
<td>0.09 deg</td>
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<td>External noise sensitivity</td>
<td>Immune</td>
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<tr>
<td>Data output rate (data stream mode)</td>
<td>100 Hz</td>
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<tr>
<td>Mass</td>
<td>440 g</td>
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<tr>
<td>Communication protocol</td>
<td>Modbus RTU / Data stream (RS-485)</td>
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<td>IP Rating</td>
<td>IP65</td>
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* All specifications are provided for reference only. See User Manual at support.robotiq.com for official specifications.

WHAT’S NEXT?

Get access to the FT 300-S Force Torque Sensor specifications at support.robotiq.com

Chat with the Robotiq sales team:
iss@robotiq.com
1-888-ROBOTIQ

Place your contact information here

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