GuardLink Enabled Connection Taps

Enabling Smart Safety Devices in The Connected Enterprise

Features and Benefits

• Acts as the adaptor for safety input devices to connect to GuardLink™
• Provides device location and status to GuardLink GSR Relay (DG)
• Connects Output Safety Switching Device (OSSD) or Electromechanical Safety Switch (EMSS) safety devices
• Two bright indicators for device and link communication status
• Compact 40 mm housing fits on standard aluminum profiles
• TÜV Approved Pb, SIL 3, Cat 4 Rated
• IP65/IP67/IP69k environmental rating

What is GuardLink?

GuardLink is a safety-based communications protocol that links safety to The Connected Enterprise. Allen-Bradley® Guardmaster® smart safety devices featuring GuardLink technology deliver information, advanced functionality and flexibility, while enhancing safety and increasing efficiency machine- and plant-wide.

GuardLink enabled devices offer advanced features and diagnostics that can only be accessed through a GuardLink enabled connection tap.
• Real time, contextual diagnostics and sensor health data significantly improve troubleshooting
• Automatic Device Reset (ADR)
• Seamless integration into Rockwell Automation EtherNet/IP™ network architecture

GuardLink not only provides a simpler, more effective and productive safety solution, but can also deliver faster time to market and help lower the total cost of ownership of your machines.

Allen-Bradley Guardmaster safety relays and safety components featuring GuardLink technology allow you to access status information for your entire safety system. If an e-stop or an interlock switch is operated, that individual safety signal will be sent to the Guardmaster safety relays. That information is then communicated seamlessly across The Connected Enterprise via the Guardmaster EtherNet/IP™ network Interface.
The GuardLink Safety System

- Safety, diagnostics, remote reset and lock command over one cable
- Up to 32 devices per link (such as interlocks, guardlocking switches, light curtains and e-stops)
- 3200 m link distance (max 100 m between devices)*
- Linear topology with standard M12 4-conductor (trunk) or 5-conductor (drop) patchcords
- Plug and play, no configuration required
- TÜV certified PLe
- Integrated with the Connected Enterprise via the 440R-ENETR EtherNet/IP network interface (Series B)

* Links that contain one or more guard locking switches are limited to 1000 m link distance (max 30 m between GuardLink enabled taps or devices)

The safety device is connected to a GuardLink enabled connection tap or a passive tap in a trunk and drop topology. The DG Guardmaster safety relay monitors up to two GuardLink circuits. Status and diagnostic information are communicated to the control system via the 440R-ENETR EtherNet/IP interface, linking the GuardLink system to The Connected Enterprise.

Product Selection

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog Number</th>
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<tbody>
<tr>
<td>GuardLink enabled tap M12 5-Pin Electromechanical (EM) contacts¹</td>
<td>440S-MF5D</td>
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<tr>
<td>GuardLink enabled tap M12 8-Pin EM contacts¹</td>
<td>440S-MF8D</td>
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<tr>
<td>GuardLink enabled tap M12 8-Pin EM contacts²</td>
<td>440S-MLF8D</td>
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<tr>
<td>GuardLink enabled tap M12 5-Pin Solid State (SS) contacts¹</td>
<td>440S-SF5D</td>
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<tr>
<td>GuardLink enabled tap M12 8-Pin SS contacts¹</td>
<td>440S-SF8D</td>
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<tr>
<td>GuardLink enabled tap M12 8-Pin SS contacts²</td>
<td>440S-SLF8D</td>
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</tbody>
</table>

¹ These taps are compatible with Power to Release (PTR) guard locks
² These taps are compatible with Power to Lock (PTL) guard locks
³ GuardLink enabled safety devices are connected to the link using passive tap (440S-PF5D) or passive power tap (440S-PFSD4)

Accessories

<table>
<thead>
<tr>
<th>Description</th>
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<tr>
<td>GuardLink Tap Mounting Bracket – Qty. 1</td>
<td>440S-GLTAPBRK1</td>
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<tr>
<td>GuardLink Tap Mounting Bracket – Qty. 5</td>
<td>440S-GLTAPBRK5</td>
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