PRODUCT MANUAL

Lynx™ Shielded Communications Adapter Module

DIN/LX-M

Training and Technology for Injection Molding

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PRODUCT MANUAL

LYNX™ SHIELDED COMMUNICATIONS ADAPTER MODULE

DIN/LX-M

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DIN/LX-M

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INTRODUCTION

Read, understand, and comply with all following instructions. This guide must be kept available for reference at all times.

DISCLAIMER

Inasmuch as RJG, Inc. has no control over the use to which others may put this material, it does not guarantee that the same results as those described herein will be obtained. Nor does RJG, Inc. guarantee the effectiveness or safety of any possible or suggested design for articles of manufacture as illustrated herein by any photographs, technical drawings, and the like. Each user of the material or design or both should make his own tests to determine the suitability of the material or any material for the design as well as the suitability of the material, process, and/or design for his own particular use. Statements concerning possible or suggested uses of the material or designs described herein are not to be construed as constituting a license under any RJG, Inc. patent covering such use or as recommendations for use of such material or designs in the infringement of any patent.

PRIVACY

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ALERTS

The following three alert types are used as needed to further clarify or highlight information presented in the manual:

DEFINITION *A definition or clarification of a term or terms used in the text.*

NOTES *A note provides additional information about a discussion topic.*

CAUTION *A caution is used to make the operator aware of conditions that can cause damage to equipment and/or injury to personnel.*

NOTES

PRODUCT DESCRIPTION

The Lynx™ shielded communications adapter DIN/LX-M is a Lynx-to-DIN-rail communications module that interfaces other RJG Lynx DIN-rail mounted modules to the eDART® or CoPilot® system when a shielded sequence module ID7-M-SEQ is not used.

APPLICATIONS

In instances which do not require machine sequence timing signals for use with the eDART or CoPilot systems, but the use of other Lynx modules are required to gather or send process information, the DIN/LX-M provides a physical link between the eDART or CoPilot system and the additional Lynx modules.

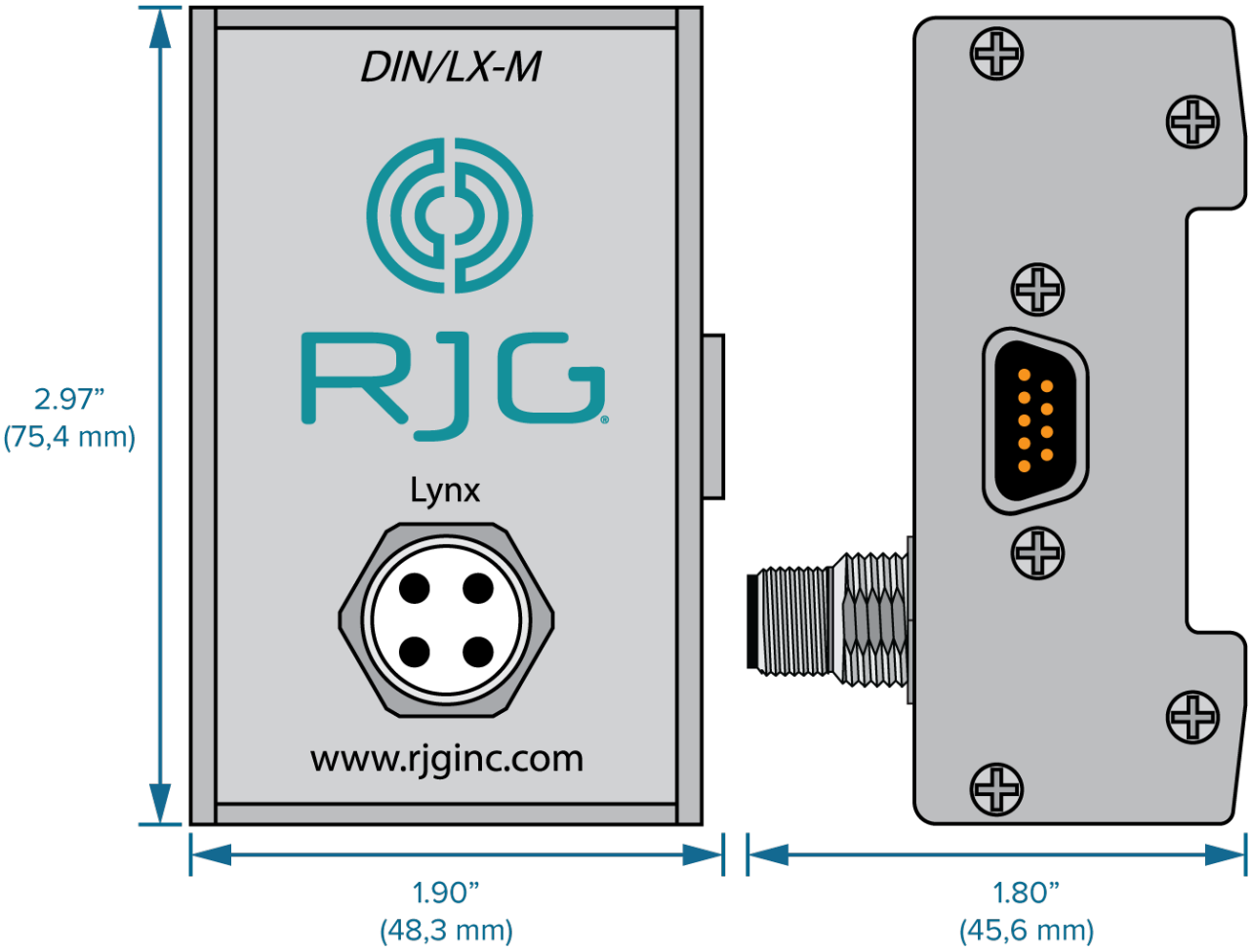
OPERATION

The DIN/LX-M is connected to the other Lynx module(s) using the integrated side connectors, and is then connected to the eDART or CoPilot system using standard Lynx cables and a junction.

TEMPERATURE

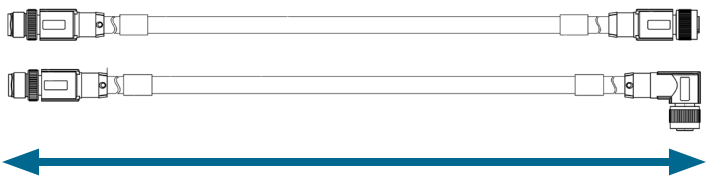
The DIN/LX-M has a maximum operating temperature of 140 °F (60 °C).

DIMENSIONS



CABLE LENGTHS

CE-LX5	12, 40, 79, 158, 236, 472”
	(0,3, 1,0, 2,0, 4,0, 12,0 m)



Cable Length

INSTALLATION

INSTALLATION OVERVIEW

The shielded machine interface modules are mounted to a solid surface, such as the machine frame, inside the molding machine on a DIN rail.

DIN/LX-M

The DIN/LX-M is installed on a DIN rail inside the machine panel. Additional machine interface modules are connected to the DIN/LX-M using the integrated side connectors, allowing the modules to interact with the eDART or CoPilot system without the use of a machine sequence module ID7-M-SEQ.

eDART OR COPILOT CONNECTION

A Lynx cable CE-LX5 is connected to the Lynx port on the DIN/LX-M and a Lynx port on the eDART system. The DIN/LX-M facilitates a connection and the interaction between the additional machine interface modules and eDART or CoPilot system without the use of a machine sequence module ID7-M-SEQ.

INSTALLATION SPECIFICATIONS

The instructions that follow are a general guide; actual steps necessary to install this product will vary based on installation location and options.

MOUNTING

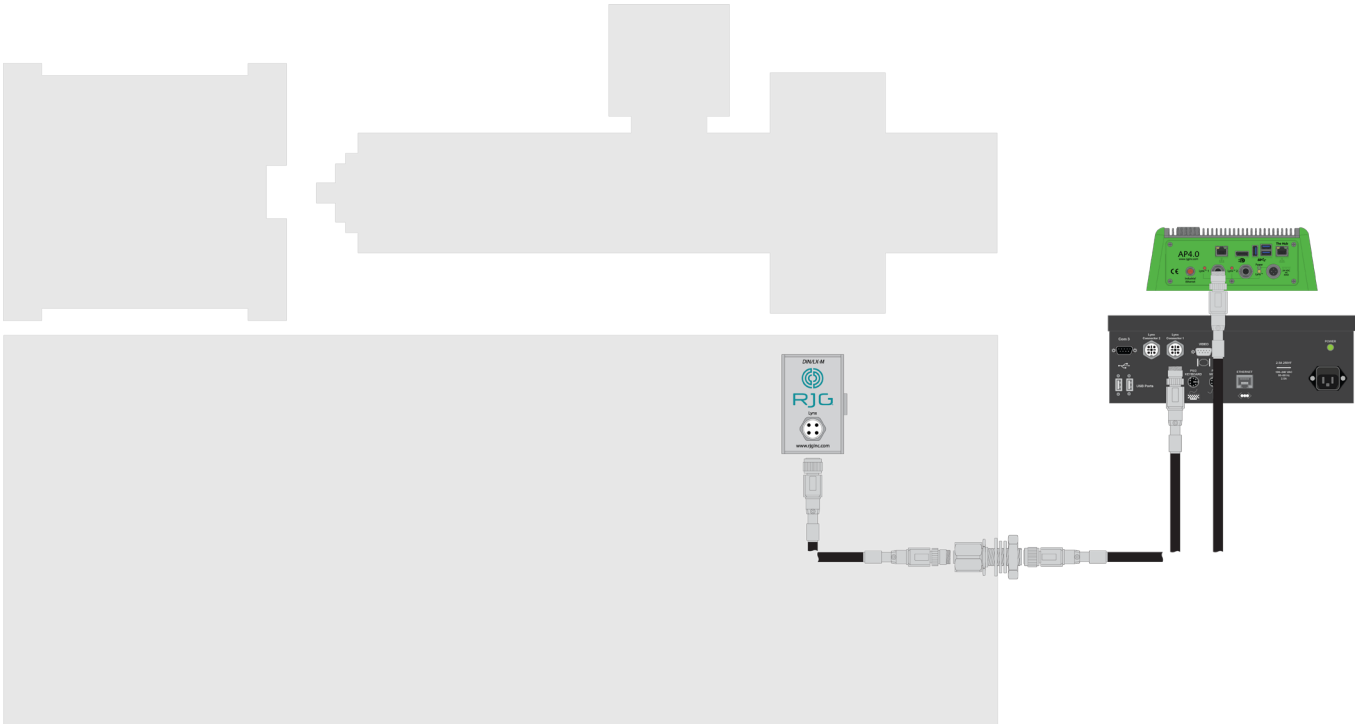
CAUTION *Before beginning DIN/LX-M installation, disconnect and lockout/tag-out any and all power to the molding machine. Failure to comply will result in personal injury or death, and damage or destruction of equipment.*

Mount the DIN/LX-M module to a solid surface—such as the molding machine frame—using the supplied 1.38” (35 mm) DIN rail. A clearance height of 6” (152,4 mm) from the face of the module is recommended.

NOTES *Modules and connecting cables must be located away from any static sources, such as feeder tubes and material hoppers.*

CONNECTIONS

Connect the Lynx cable to the DIN/LX-M module. Connect the Lynx cable to the JLX-1 junction; use another Lynx cable to connect the DIN/LX-M and JLX-1 to the eDART or CoPilot system.



MAINTENANCE

The shielded communications adapter module requires little to no maintenance provided that all installation instructions are followed.

CLEANING

Cables must be installed in areas free from oil, dirt, grime, and grease.

RJG, Inc. recommends the following cleaners:

- Microcare MCC-CCC Contact Cleaner C
- Microcare MCC-SPR SuprClean™
- Miller-Stephenson MS-730L Contact Re-Nu®

WARRANTY

RJG, INC. STANDARD WARRANTY

RJG, Inc. is confident in the quality and robustness of the shielded machine interface modules, and so are offering a one-year warranty. RJG's products are guaranteed against defects in material and workmanship for one year from the original date of purchase. The warranty is void if it is determined that the adapter was subjected to abuse or neglect beyond the normal wear and tear of field use, or in the event the adapter box has been opened by the customer.

PRODUCT DISCLAIMER

RJG, Inc. is not responsible for the improper installation of this equipment, or any other equipment RJG manufactures.

Proper RJG equipment installation does not interfere with original equipment safety features of the machine. Safety mechanisms on all machines should never be removed.

NOTES

TROUBLESHOOTING

CUSTOMER SUPPORT

Contact RJG's Customer Support team by phone or email.

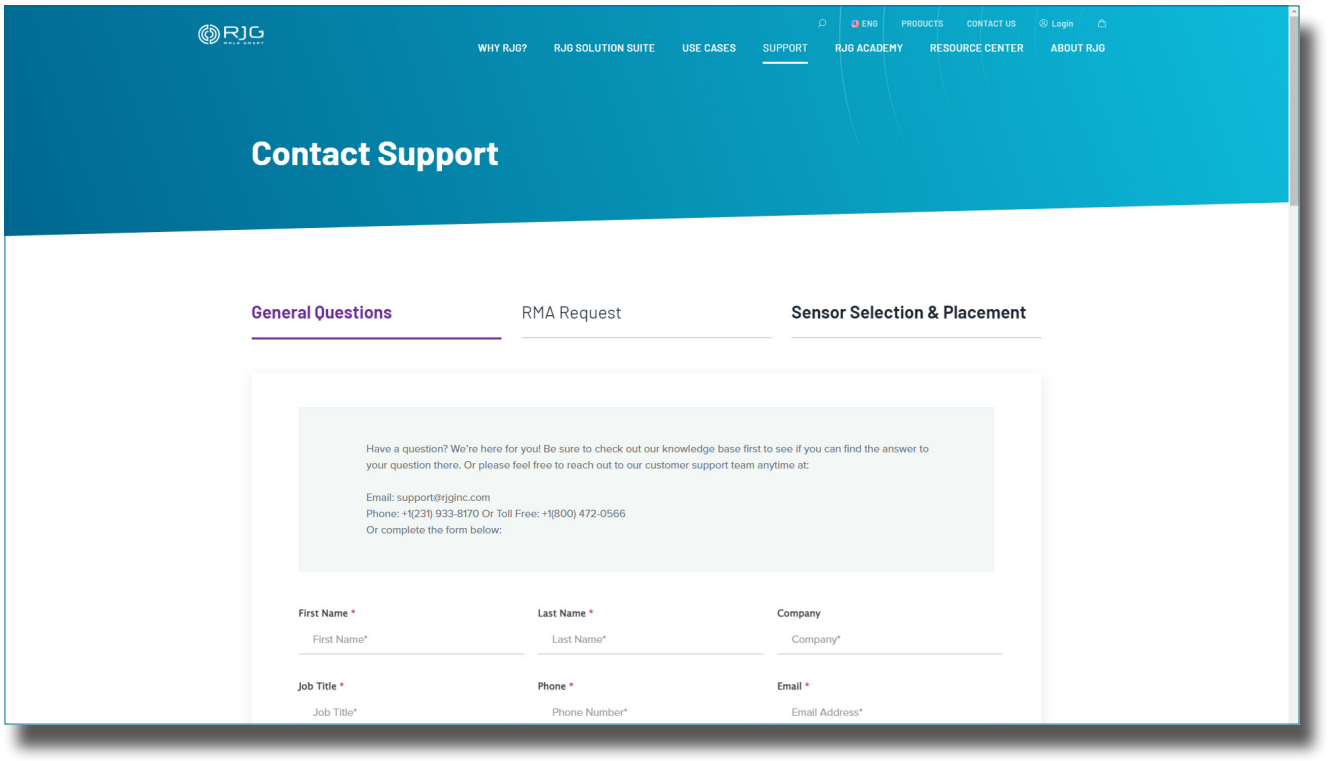
RJG, Inc. Customer Support

P: 800.472.0566 (Toll Free)

P: +1.231.933.8170

email: support@rjginc.com

www.rjginc.com/support



NOTES

RELATED PRODUCTS

The shielded sequence module is compatible with other RJG, Inc. products for use with the eDART or CoPilot process control and monitoring systems.

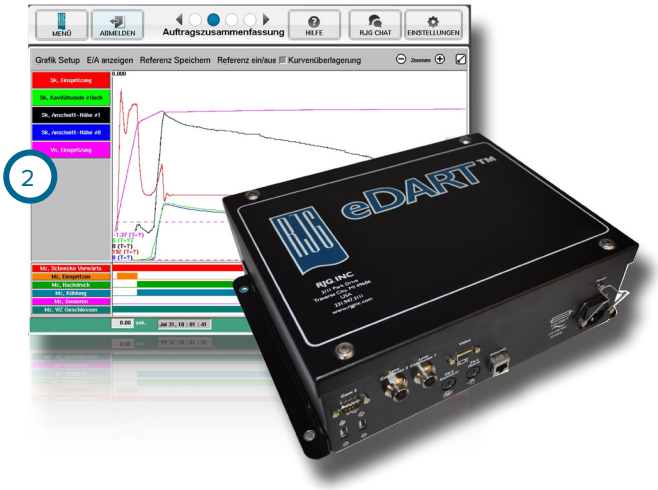
COMPATIBLE PRODUCTS

LYNX CABLES CE-LX5

The Lynx sensor cable (1 at right) is a polypropylene-coated cable suited for the heat and stress found in injection molding environments. The cable is available in lengths 12–472” (0,3–12 m), and can be ordered with straight or 90° fittings. One CE-LX5 is required to interface the ID7-M-SEQ with the eDART or CoPilot systems.

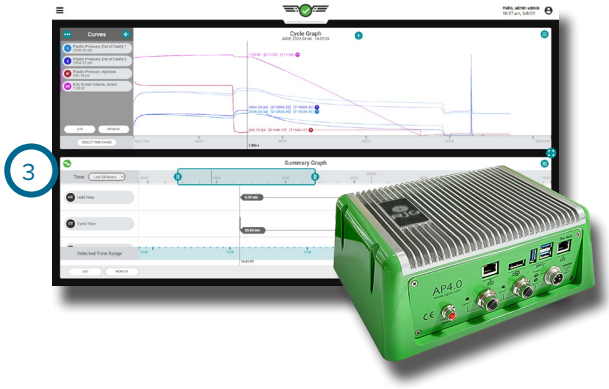
eDART PROCESS CONTROLLER

The eDART process controller (2 at right) is the base hardware unit for the eDART system. The eDART system is the most powerful process control system in the industry, allowing molders to stabilize and control injection molding processes and contain bad parts, ensuring high quality and cost-reduction.



COPILOT SYSTEM APPLICATION PROCESSOR AP4.0

The CoPilot system application processor AP4.0 (3 at right) is the base hardware unit for the CoPilot system. The CoPilot system is the latest in injection molding smart technology. The simple, user-friendly software ensures customers receive only the highest quality parts while minimizing waste in the process.



SIMILAR PRODUCTS

The following products, similar to the DIN/LX-M, are compatible for use with the eDART or CoPilot process control and monitoring systems.

LYNX SHIELDED DUAL-RELAY OUTPUT MODULE OR2-M

The Lynx shielded dual-relay output module OR2-M (1 at right) is a shielded, DIN-rail-mounted module that interfaces the eDART or CoPilot system and sorting equipment or injection molding machines to implement part containment or control transfer. This module is shielded to ensure high quality data even in rugged molding environments, and designed to be mounted on standard 35 mm DIN rails often found in machine panels.

1

LYNX SHIELDED ANALOG INPUT MODULE IA1-M-V

The Lynx shielded analog input module IA1-M-V (2 at right)is a shielded, DIN-rail-mounted module that interfaces the eDART or CoPilot system and injection molding machines in order to collect 0–10 V DC signals from analog measurement devices, providing information such as: injection pressure, plastic pressure, screw position, and temperature.

2

LYNX SHIELDED ANALOG OUTPUT MODULE OA1-M-V

The Lynx shielded analog output module IA1-M-V (3 at right)is a shielded, DIN-rail-mounted module that interfaces the eDART or CoPilot system and injection molding machines in order to provide 0–10 V DC signals to sensors or input such as plastic and hydraulic pressure input cards, or to facilitate machine transfer.

3

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