RJG *eDART*® Installation Quick Start Guide

1 — Mount the eDART to a stable, non-vibrating surface

Mount the *eDART* with at least 12" (304,8 mm) clearance on the connection side and 6" (152,4 mm) on all other sides.

2 — Connect the supplied keyboard and mouse

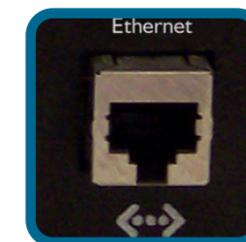**3** — Connect a monitor (VGA) / Connect a touchscreen (COM 3)

4 — Connect the power supply

**5** — If you are using an eDART Data Manager (EDM)

⚠ **IMPORTANT: READ BEFORE INSTALLING THIS eDART ON YOUR NETWORK**

The *eDART* Data Manager (EDM) keeps all of your networked *eDART* configurations up to date by finding the *eDART* with the newest configurations and copying them across the network. If you are connecting the *eDART* to a network, please consult your "EDM Network Setup" document supplied with your EDM or download it from the RJG website.

WARNING: If you change settings on this *eDART* BEFORE you put it on the network, the EDM cross copy function will copy the new configurations to the rest of the *eDARTs* on your network. This can overwrite your existing *eDART* Security, Mold configurations, Alarms, etc.

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RJG Hardware Installation Quick Start Guide
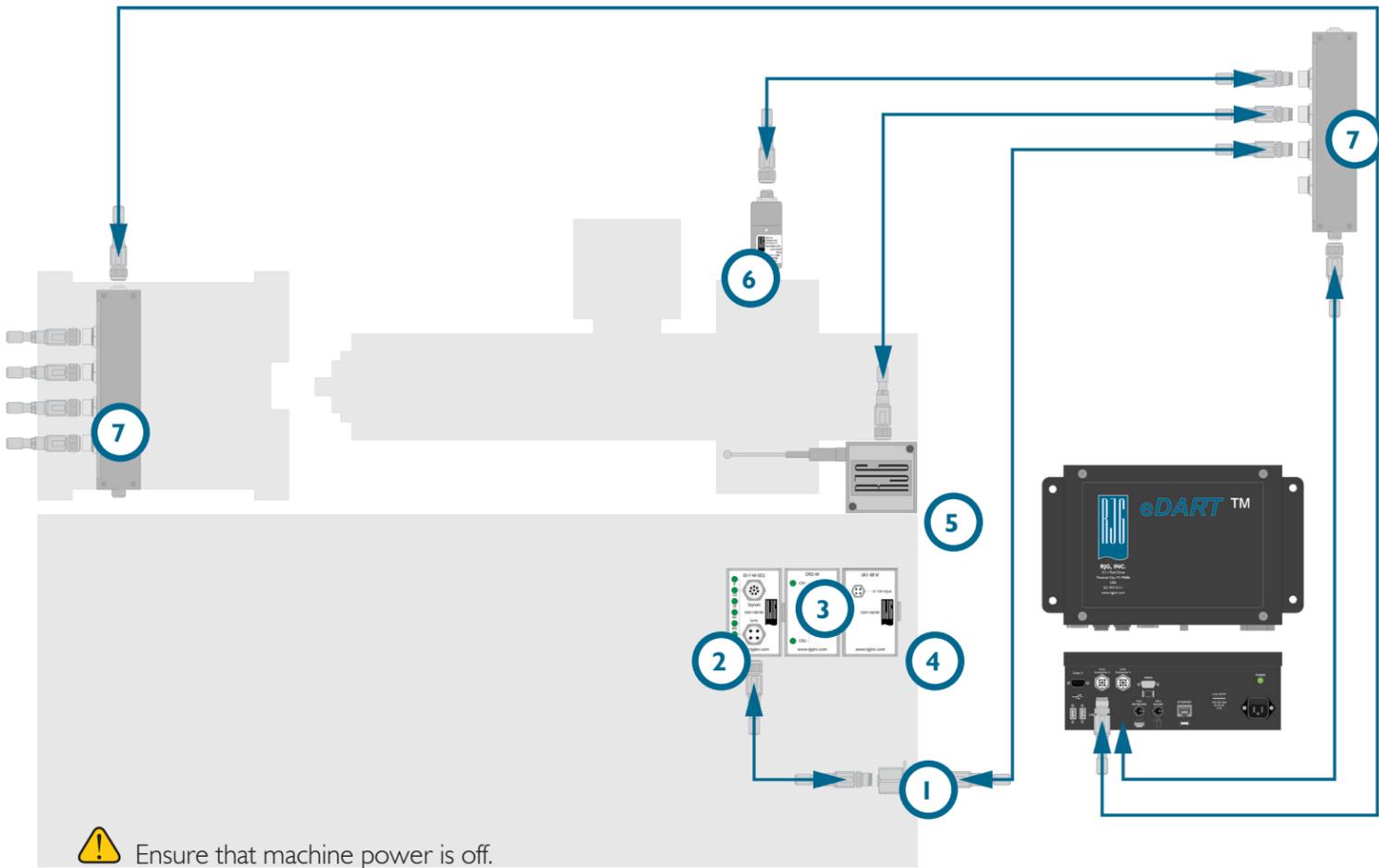
⚠️ Ensure that machine power is off.

* Refer to the *eDART*® Manual for more information—download online at https://www.rjginc.com.

3 flx conx apex

Dual Relay Module (OR2-M) Installation

- Dry contact relay output
- Relay energizes when the eDART detects that the part is good (within alarm limits)
- Connect black wire of OR2-M to a 24 V source
- Connect brown wire of OR2-M to sorting or machine input

Machine Input
- Blue
- Black — (Voltage Source)
- Brown — Sorting Input

4 conx apex

Analog Input Module (IA1-M-VI) Installation
(Electric Machine Only)

- Connect white wire of the IA1-M-VI cable to the common terminal of the machine's 0–10 V output card
- Connect blue wire of the IA1-M-VI cable to the output terminal of the machine's 0–10 V output card

Machine Output Card
- White — COM
- Blue — 0-10 V DC
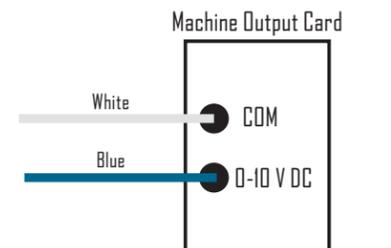
5 conx apex

Stroke-Velocity Sensor (LE-R-50) Installation

- Mount sensor on the injection sled in front or behind the injection unit. (The sensor will detect correct movement in either direction)
- Connect the cable to the injection unit so that it detects linear movement of the screw
- Install sensor so that the cable enters the cable bushing straight to avoid wear on the cable
- Insure that screw travel does not exceed maximum length of the sensor.

LE-R-50
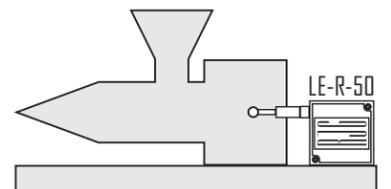
6 conx apex

Hydraulic Sensor (LS-H-1/4NPT-3K) Installation
(Hydraulic Machine Only)

⚠️

- Ensure that machine power is off and that hydraulic system is depressurized before installing sensor
- Attach hydraulic sensor to the machine's hydraulic system so that it accesses injection and back pressures at the ram cylinder

LS-H-1/4NPT-3K

1 flx conx apex
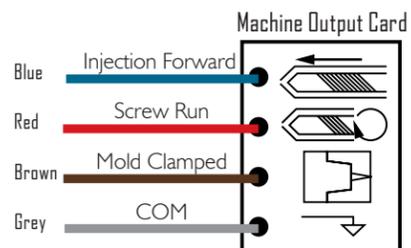
Machine Panel Installation

- Install J-LX1 feed through in machine panel
- Securely mount 35 mm DIN Rail
- Mount modules on DIN Rail and slide them together to secure connectors
- Attach Lynx cable between J-LX1 and ID7-M-SEQ

J-LX1 Mounting Hole

0.5" DIA (12,7 mm)

2 flx[1] conx apex

Sequence Input Module (ID7-M-SEQ) Installation

- Verify the sequence output card in the machine panel can supply a reliable 24 V source for each signal
- Attach the common wire (grey) from the ID7-M-SEQ to the common terminal on the machine's output card
- Connect the input wires on the ID7-M-SEQ to the appropriate signal outputs on the machine's output card
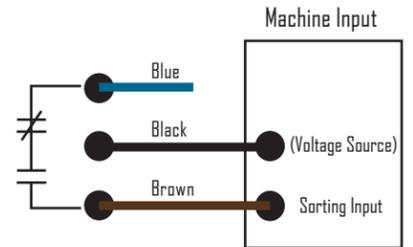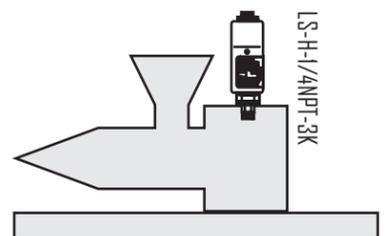
Machine Output Card
- Blue — Injection Forward
- Red — Screw Run
- Brown — Mold Clamped
- Grey — COM

[1] flx only accepts Mold Clamp (MC)

7 flx conx apex

Lynx Cables & Junction Boxes

- Mount the junction box to a convenient location
- Securely connect mold sensor junction box Lynx cable to a Lynx port on the eDART
- Securely connect machine sensor junction box Lynx cable to the other Lynx port on the eDART
- Verify all cables will not get pinched or pulled during normal machine operation

6.75" (171,45 mm)
1.0" (25,4 mm)
0.25" (6,35 mm)
1.5" (38,1 mm)
0.19" (4,83 mm)
Mounting Holes

7.19" (182,63 mm)
2.05" (52,07 mm)
1.0" (25,4 mm)
0.19" (4,83 mm)
0.25" (6,35 mm)
Mounting Holes