



A GUIDE TO AIRTECT

- **About AIRTECT**
- **Catalog**
- **Installation Guide**
- **Brochures**
- **Presentations**

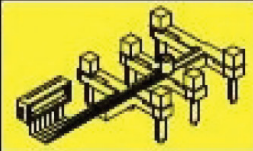
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AIRTECT

Plastic Leak Alarm System



About AIRTECT

Detect Catastrophic Injection Mold Leaks
with the AIRTECT Alarm System



North American

AIRTECT DISTRIBUTOR

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plastiXs[®]
manufacturing solutions

Detect Catastrophic Injection Mold Leaks with the AIRTECT Alarm System

The AIRTECT Plastic Leak Alarm System provides an early detection system for leaks in your plastic molds, minimizing costly repairs and downtime.

Molten plastic leaks are more than just a nuisance for injection molders; even a minor leak can spell disaster, significantly damaging your molds and requiring extensive cleanup and repair.

While leaks are an industry-wide problem, few manufacturers know of a simple warning system that can save them thousands, keep their molds online, and help prevent catastrophic leaks.

The [AIRTECT Plastic Leak Alarm System](#) is a cost-effective, unique device that assists in preventing damage caused by leaking molten plastic material at the main injection nozzle and within hot runner molds.

Don't Let This Happen to You:



The Risks of Leaking Molten Plastic

Molten plastic exposed within your work environment poses a significant risk to the safety of your equipment, molds, and – most importantly – your team.

Injection molds run at high pressures, often between 10,000 and 30,000 psi. With such a high pressure, the flow path of the plastic must be seamless to prevent leaks from occurring.

Maintaining the safety of your manufacturing facility includes regular upkeep and monitoring of the state of your molds, but leaks are hard to predict and can cause significant damage to your operations.

The tangible risks of a leak include machine downtime and repair, maintenance labor to replace and clean the plastic, and the replacement of heater bands and thermocouples. The greater the machine tonnage, the greater the cost of a nozzle leak. The intangible costs of leaks can include reputational damage due to late deliveries, and compliance issues for industry health standards.

The AIRTECT alarm system monitors your molds for leaks, alerting you the moment a leak has occurred.

Immediately Identify Nozzle & Hot Runner Leaks

Don't wait for disaster to strike; AIRTECT notifies you the instant your mold malfunctions.

The AIRTECT system operates with a small amount of air going through 1.6 mm or 2.0 mm stainless steel tubes (at 2-3 PSI, using less than <0.01 cfm per circuit). AIRTECT utilizes a very sensitive pressure differential switch with an alarm that sounds whenever air flow on any tube is blocked or decreases. A small length of high temperature silicone tube is added to the stainless steel tube for increased sensitivity.

See how it works: <https://youtu.be/TVUvnjsFvTg>

High ROI

Installation is straightforward for both new and existing hot runner systems and, with an LED display, you can view the status of your entire operations. This solution provides 24-hour protection and peace of mind for injection molders that can't afford downtime.

From automotive to medical to food packaging and other industries, manufacturers that run high production often spend tens of thousands of dollars on repairing mold leaks. The AIRTECT Plastic Alarm System offers a safeguard against leaks, starting under \$1,000 – protecting you from damage that could cost 10-100x of what AIRTECT costs.

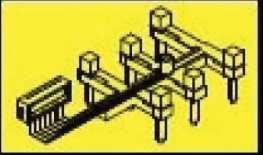
Get Started Today

Whether you have new molds, problematic existing ones, or simply manage many changeovers, the AIRTECT system helps you maintain online production without the fear of costly leaks – like a form of downtime insurance. [Contact us](#) and we'll work closely with you to determine the right size and setup of the AIRTECT to meet your exact needs.

[Contact us to learn more about preventing leaks with AIRTECT](#)

AIRTECT

Plastic Leak Alarm System



PRODUCTS AND SPARE PARTS CATALOG



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North American
AIRTECT DISTRIBUTOR

plastiXs[®]
manufacturing solutions

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SINGLE ZONE / CONTROL UNITS

LA500



INJECTION NOZZLE PLASTIC LEAK ALARM (AND CONTROL UNIT FOR FIXED AND MODULAR MANIFOLDS)

Kit Includes:

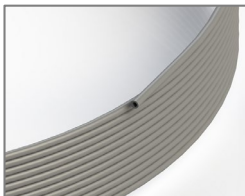
- LA500 with 2 x 7-segment LED display with programmable operational settings
- AR-20GF Air Pressure Regulator with Pressure Gauge, Air Filter and Fittings
- 3 Meters PU Tube
- 0.5 Meters 2.5mm Silicone Rubber Tube
- 3 Meters 2mm Stainless Steel Sensor Tube
- Installation/Operation Manual
- 2 Meter Electrical Power/Interlock Cable

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 0.9 Kg

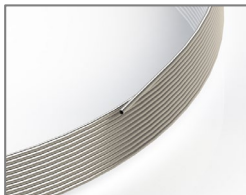
AR-20GF



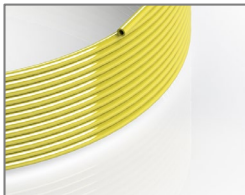
TUBE-SIL



TUBE-SS



TUBE-PU



LM2050



INJECTION NOZZLE PLASTIC LEAK ALARM (AND CONTROL UNIT FOR FIXED AND MODULAR MANIFOLDS)

Kit Includes:

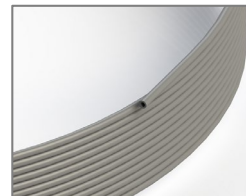
- LM2050 with 2-line, 16-character LCD display with multiple languages and programmable operational settings
- AR-20GF Air Pressure Regulator with Pressure Gauge, Air Filter and Fittings
- 3 Meters PU Tube
- 0.5 Meters 2.5mm Silicone Rubber Tube
- 3 Meters 2mm Stainless Steel Sensor Tube
- Installation/Operation Manual
- 3 Meter Electrical Power/Interlock Cable

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 1 Kg

AR-20GF



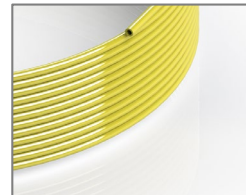
TUBE-SIL



TUBE-SS



TUBE-PU



4-ZONE (with Programmable Controller)

LA500



OR

LM2050



+

LA504-X



+

PCC-X



LA500



OR

LM2050



+

LA504-M-H



+

LA504-B-X



+

PCC-X



LA500



OR

LM2050



+

LA504-M-S



+

LA504-B-X



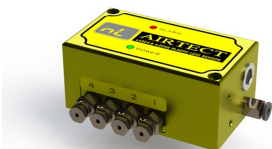
+

PCC-X



4-ZONE (without Programmable Controller)

LA504S-X

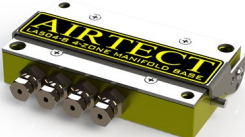


LA504S-M-H



+

LA504-B-X



LA504S-M-S



+

LA504-B-X



4-ZONE

LA504-X



4-ZONE FIXED LEAK ALARM MANIFOLD (requires connection to LA500 or LM2050 control/display unit)

Kit Includes:

- LA504 Manifold (fixed type)
- 3 Meters PU Tube
- 1 Meter 2mm Silicone Rubber Tube
- (4) brackets and (8) screws for Sensor Tube
- 5 Meters Xmm Stainless Steel Sensor Tube

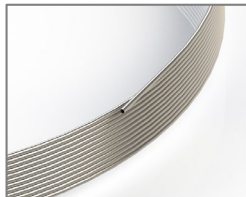
X=Sensor Tube Diameter: 1.6mm or 2.0mm

PROGRAMMABLE OPTIONS VIA LA500 or LM2050

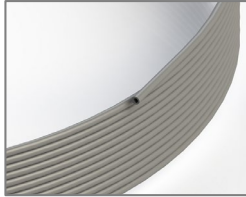
CANNOT BE DAISY CHAINED AS PART OF A LARGER SYSTEM

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 0.7 Kg

TUBE-SS



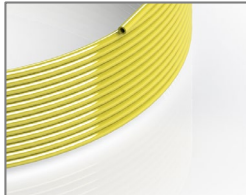
TUBE-SIL



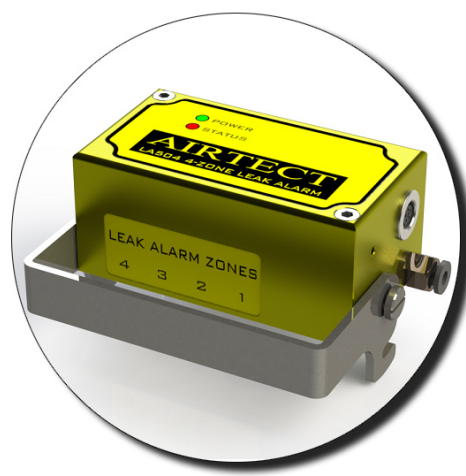
BKT-SS



TUBE-PU



LA504-M-H



4-ZONE MODULAR LEAK ALARM MANIFOLD (HANDLE) (requires connection to LA500 or LM2050 control/display unit)

Kit Includes:

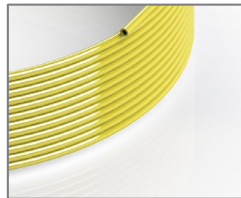
- LA504 Manifold (modular type) with Handle Release
- 3 Meters PU Tube
- Protection Base

PROGRAMMABLE OPTIONS VIA LA500 or LM2050

CANNOT BE DAISY CHAINED AS PART OF A LARGER SYSTEM

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 0.7 Kg

TUBE-PU



4-ZONE

LA504-M-S



4-ZONE MODULAR LEAK ALARM MANIFOLD (SCREW)

(requires connection to LA500 or LM2050 control/display unit)

Kit Includes:

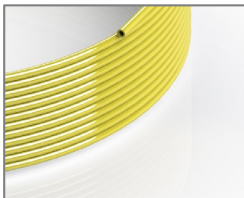
- LA504 Manifold (modular type) with Screw Release
- 3 Meters PU Tube
- Protection Base

PROGRAMMABLE OPTIONS VIA LA500 or LM2050

CANNOT BE DAISY CHAINED AS PART OF A LARGER SYSTEM

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 0.7 Kg

TUBE-PU



LA504-B-X



4-ZONE MODULAR LEAK ALARM MANIFOLD BASE (USE WITH LA504-M-H, LA504-M-S, LA504S-M-H or LA504S-M-S)

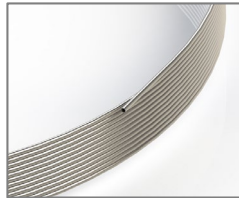
Kit Includes:

- LA504-B Manifold Base
- (4) brackets and (8) screws for Sensor Tube
- 1 Meter 2mm Silicone Rubber Tube
- 5 Meters Xmm Stainless Steel Sensor Tube

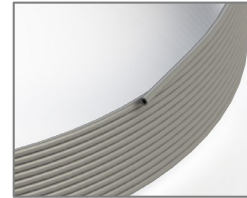
X=Sensor Tube Diameter: 1.6mm or 2.0mm

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 0.8 Kg

TUBE-SS



TUBE-SIL



BKT-SS



4-ZONE STAND-ALONE

LA504S-X



4-ZONE FIXED STAND-ALONE LEAK ALARM MANIFOLD (does NOT require connection to LA500 or LM2050 control/display unit)

Kit Includes:

- LA504S Manifold (fixed type) with LED Display
- 3 Meters PU Tube
- 1 Meter 2mm Silicone Rubber Tube
- (4) brackets and (8) screws for Sensor Tube
- 3 Meters Power/Relay Interlock Cable
- 5 Meters Xmm Stainless Steel Sensor Tube

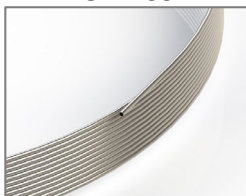
X=Sensor Tube Diameter: 1.6mm or 2.0mm

NON-PROGRAMMABLE

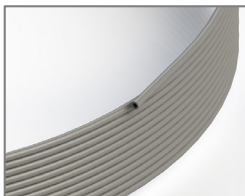
CANNOT BE DAISY CHAINED AS PART OF A LARGER SYSTEM

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 0.7 Kg

TUBE-SS



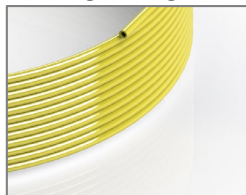
TUBE-SIL



BKT-SS



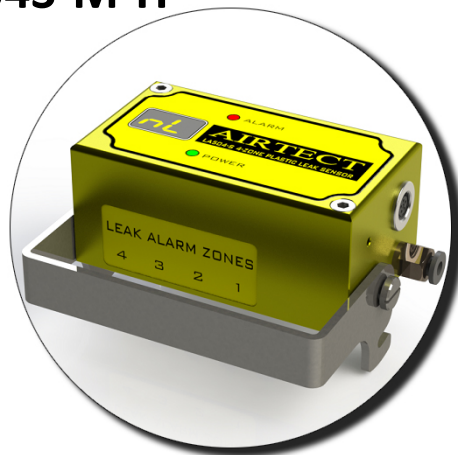
TUBE-PU



PCC-S



LA504S-M-H



4-ZONE MODULAR STAND-ALONE LEAK ALARM MANIFOLD (HANDLE) (does NOT require connection to LA500 or LM2050 control/display unit)

Kit Includes:

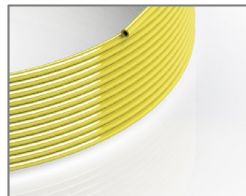
- LA504S Stand-Alone Modular Manifold with Handle Release and LED Display
- 3 Meters PU Tube
- 3 Meters Power/Relay Interlock Cable
- Protection Base

NON-PROGRAMMABLE

CANNOT BE DAISY CHAINED AS PART OF A LARGER SYSTEM

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 0.7 Kg

TUBE-PU

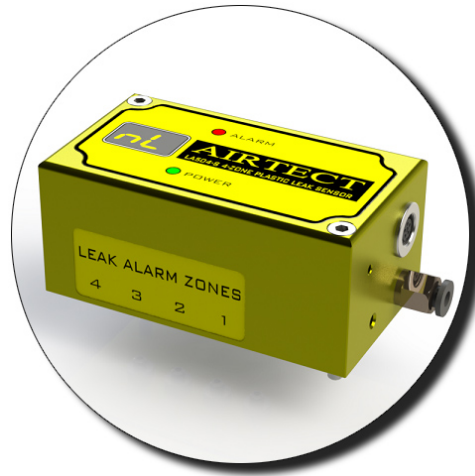


PCC-S



4-ZONE STAND-ALONE

LA504S-M-S



4-ZONE MODULAR STAND-ALONE LEAK ALARM MANIFOLD (SCREW)
(does NOT require connection to LA500 or LM2050 control/display unit)

Kit Includes:

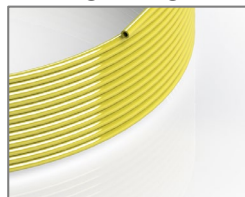
- LA504S Modular Stand-Alone Manifold with Screw Release and LED Display
- 3 Meters PU Tube
- 3 Meters Power/Relay Interlock Cable
- Protection Base

NON-PROGRAMMABLE

CANNOT BE DAISY CHAINED AS PART OF A LARGER SYSTEM

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 0.7 Kg

TUBE-PU



PCC-S



8-ZONE (with Programmable Controller)

LA500



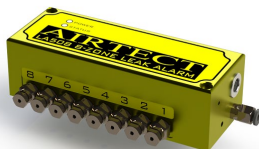
OR

LM2050



+

LA508-X-N



+

PCC-X



LA500



OR

LM2050



+

LA508-M-H-N



+

LA508-B-X



+

PCC-X



LA500



OR

LM2050



+

LA508-M-S-N



+

LA508-B-X



+

PCC-X



8-ZONE (without Programmable Controller)

LA508S-X

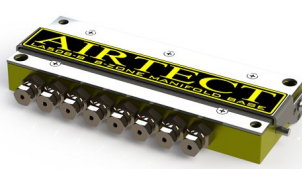


LA508S-M-H



+

LA508-B-X

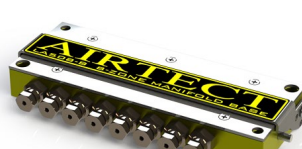


LA508S-M-S



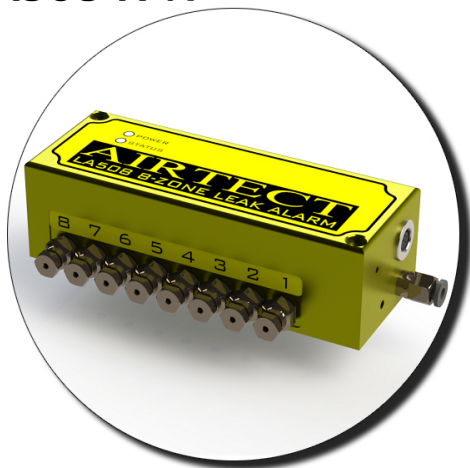
+

LA508-B-X



8-ZONE

LA508-X-N



8-ZONE FIXED LEAK ALARM MANIFOLD (requires connection to LA500 or LM2050 control/display unit)

Kit Includes:

- LA508 Manifold (fixed type)
- 3 Meters PU Tube
- 2 Meters 2mm Silicone Rubber Tube
- (8) brackets and (16) screws for Sensor Tube
- 10 Meters Xmm Stainless Steel Sensor Tube

X=Sensor Tube Diameter: 1.6mm or 2.0mm

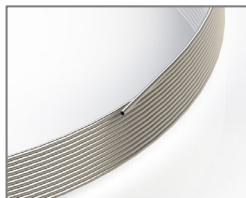
N=1,2,3 or 4

1=Zones 1-8, 2=Zones 9-16, 3=Zones 17-24, 4=Zones 25-32

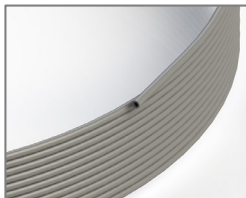
PROGRAMMABLE OPTIONS VIA LA500 or LM2050
CAN BE DAISY CHAINED AS PART OF A LARGER SYSTEM

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 1 Kg

TUBE-SS



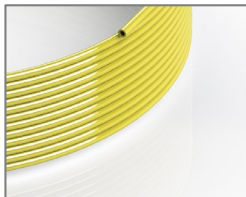
TUBE-SIL



BKT-SS



TUBE-PU



LA508-M-H-N



8-ZONE MODULAR LEAK ALARM MANIFOLD (HANDLE) (requires connection to LA500 or LM2050 control/display unit)

Kit Includes:

- LA508-M Modular Manifold with Handle Release
- 3 Meters PU Tube
- Protection Base

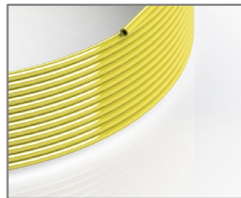
N=1,2,3 or 4

1=Zones 1-8, 2=Zones 9-16, 3=Zones 17-24, 4=Zones 25-32

PROGRAMMABLE OPTIONS VIA LA500 or LM2050

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 1.1 Kg

TUBE-PU



8-ZONE

LA508-M-S-N



8-ZONE MODULAR LEAK ALARM MANIFOLD (SCREW) (requires connection to LA500 or LM2050 control/display unit)

Kit Includes:

- LA508-M Modular Manifold with Screw Release
- 3 Meters PU Tube
- Protection Base

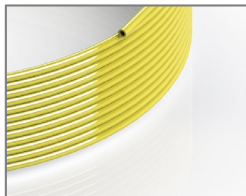
N=1,2,3 or 4

1=Zones 1-8, 2=Zones 9-16, 3=Zones 17-24, 4=Zones 25-32

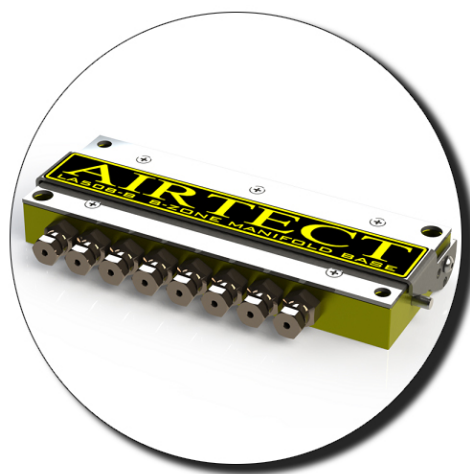
PROGRAMMABLE OPTIONS VIA LA500 or LM2050

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 1.1 Kg

TUBE-PU



LA508-B-X



8-ZONE MODULAR LEAK ALARM MANIFOLD BASE (USE WITH LA508-M-H, LA508-M-S, LA508S-M-H, LA508S-M-S, LA606-1L, LA506-1L-M-H, LA506-1L-M-S, LA506S-1L-M-H or LA506S-1L-M-S)

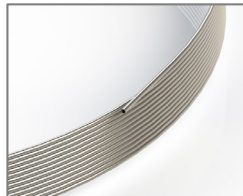
Kit Includes:

- LA508-B Manifold Base
- (8) brackets and (16) screws for Sensor Tube
- 2 Meters 2mm Silicone Rubber Tube
- 10 Meters Xmm Stainless Steel Sensor Tube

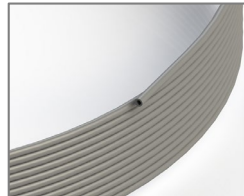
X=Sensor Tube Diameter: 1.6mm or 2.0mm

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 0.8 Kg

TUBE-SS



TUBE-SIL

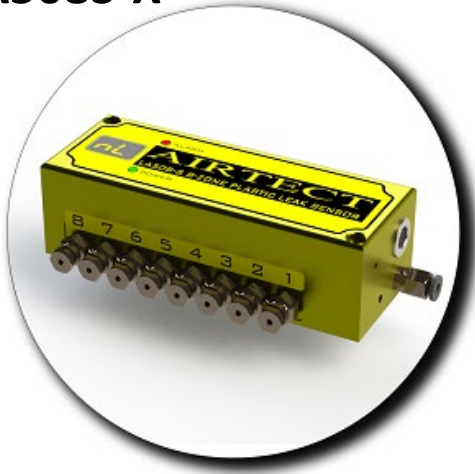


BKT-SS



8-ZONE STAND-ALONE

LA508S-X



8-ZONE FIXED STAND-ALONE LEAK ALARM MANIFOLD (does NOT require connection to LA500 or LM2050 control/display unit)

Kit Includes:

- LA508 Manifold (fixed type) with LED Display
- 3 Meters PU Tube
- 2 Meters 2mm Silicone Rubber Tube
- (8) brackets and (16) screws for Sensor Tube
- 3 Meters Power/Relay Interlock Cable
- 10 Meters Xmm Stainless Steel Sensor Tube

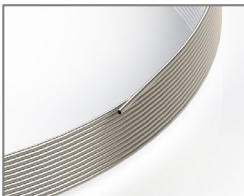
X=Sensor Tube Diameter: 1.6mm or 2.0mm

NON-PROGRAMMABLE

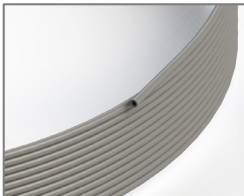
CANNOT BE DAISY CHAINED AS PART OF A LARGER SYSTEM

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 1 Kg

TUBE-SS



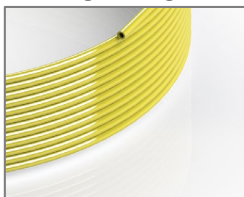
TUBE-SIL



BKT-SS



TUBE-PU



PCC-S



LA508S-M-H



8-ZONE MODULAR STAND-ALONE LEAK ALARM MANIFOLD (HANDLE) (does NOT require connection to LA500 or LM2050 control/display unit)

Kit Includes:

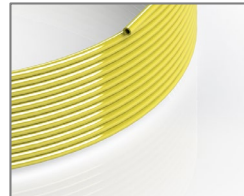
- LA508S Modular Stand-Alone Manifold with Handle Release and LED Display
- 3 Meters PU Tube
- 3 Meters Power/Relay Interlock Cable
- Protection Base

NON-PROGRAMMABLE

CANNOT BE DAISY CHAINED AS PART OF A LARGER SYSTEM

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 1.1 Kg

TUBE-PU



PCC-S



8-ZONE STAND-ALONE

LA508S-M-S



8-ZONE MODULAR STAND-ALONE LEAK ALARM MANIFOLD (SCREW)
(does NOT require connection to LA500 or LM2050 control/display unit)

Kit Includes:

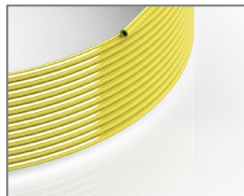
- LA508S Modular Stand-Alone Manifold with Screw Release and LED Display
- 3 Meters PU Tube
- 3 Meters Power/Relay Interlock Cable
- Protection Base

NON-PROGRAMMABLE

CANNOT BE DAISY CHAINED AS PART OF A LARGER SYSTEM

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 0.7 Kg

TUBE-PU



PCC-S



16-ZONE (with Programmable Controller)

LA500



LM2050



OR

+

LA516-M-H-N



+

LA516-B-X



+

PCC-X



LA500



OR

LM2050



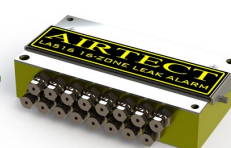
+

LA516-M-S-N



+

LA516-B-X



+

PCC-X



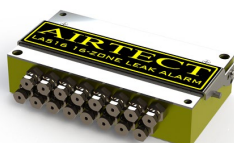
16-ZONE (without Programmable Controller)

LA516S-M-H



+

LA516-B-X

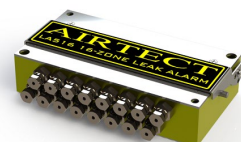


LA516S-M-S



+

LA516-B-X



16-ZONE

LA516-M-H-N



16-ZONE MODULAR LEAK ALARM MANIFOLD (HANDLE) (requires connection to LA500 or LM2050 control/display unit)

Kit Includes:

- LA516-M-H Manifold with Handle Release
- 3 Meters PU Tube
- Protection Base

PROGRAMMABLE OPTIONS VIA LA500 or LM2050

N=1 or 2

1=Zones 1-16, 2=Zones 17-32

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 1.5 Kg

TUBE-PU



LA516-M-S-N



16-ZONE MODULAR LEAK ALARM MANIFOLD (SCREW) (requires connection to LA500 or LM2050 control/display unit)

Kit Includes:

- LA516-M-S Manifold with Screw Release
- 3 Meters PU Tube
- Protection Base

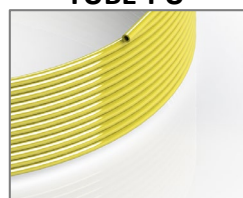
PROGRAMMABLE OPTIONS VIA LA500 or LM2050

N=1 or 2

1=Zones 1-16, 2=Zones 17-32

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 1.5 Kg

TUBE-PU



16-ZONE BASE

LA516-B-X



16-ZONE MODULAR LEAK ALARM MANIFOLD BASE (Use with LA516-M-H, LA516-M-S, LA516S-M-H, LA516S-M-S, LA512-2L-M-H, LA512-2L-M-S, LA512S-2L-M-H or LA512S-2L-M-S)

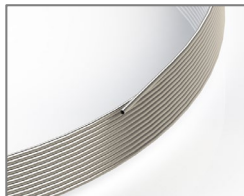
Kit Includes:

- LA516-B Manifold Base
- (16) brackets and screws for Sensor Tube
- 4 Meters 2.5mm Silicone Rubber Tube
- 20 Meters Xmm Stainless Steel Sensor Tube

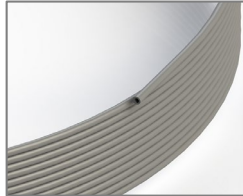
X=Sensor Tube Diameter: 1.6mm or 2.0mm

KIT SIZE(cm) 22 x 28 x 8 WEIGHT 1.4 Kg

TUBE-SS



TUBE-SIL



BKT-SS



16-ZONE STAND-ALONE

LA516S-M-H



16-ZONE MODULAR STAND-ALONE LEAK ALARM MANIFOLD (HANDLE) (does NOT require connection to LA500 or LM2050 control/display unit)

Kit Includes:

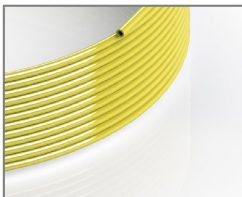
- LA516S Modular Stand-Alone Manifold with Handle Release and LED Display
- 3 Meters PU Tube
- 3 Meters Power/Relay Interlock Cable
- Protection Base

NON-PROGRAMMABLE

CANNOT BE DAISY CHAINED AS PART OF A LARGER SYSTEM

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 1.1 Kg

TUBE-PU



PCC-S



LA516S-M-S



16-ZONE MODULAR STAND-ALONE LEAK ALARM MANIFOLD (SCREW) (does NOT require connection to LA500 or LM2050 control/display unit)

Kit Includes:

- LA516S Modular Stand-Alone Manifold with Screw Release and LED Display
- 3 Meters PU Tube
- 3 Meters Power/Relay Interlock Cable
- Protection Base

NON-PROGRAMMABLE

CANNOT BE DAISY CHAINED AS PART OF A LARGER SYSTEM

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 0.7 Kg

TUBE-PU



PCC-S



24-ZONE (with Programmable Controller)

LA500



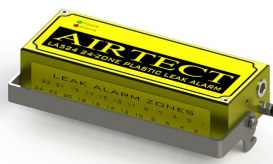
OR

LM2050



+

LA524-M-H-N



+

LA524-B-X



+

PCC-X



LA500



OR

LM2050



+

LA524-M-S-N



+

LA524-B-X



+

PCC-X



24-ZONE (without Programmable Controller)

LA524S-M-H



+

LA524-B-X

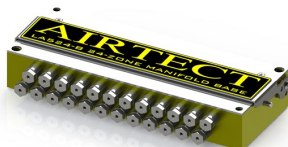


LA524S-M-S



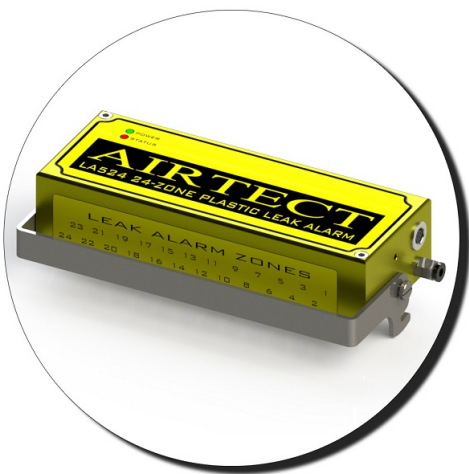
+

LA524-B-X



24-ZONE

LA524-M-H-N



24-ZONE MODULAR LEAK ALARM MANIFOLD (HANDLE) (requires connection to LA500 or LM2050 control/display unit)

Kit Includes:

- LA524-M-H Manifold with Handle Release
- 3 Meters PU Tube
- Protection Base

PROGRAMMABLE OPTIONS VIA LA500 or LM2050

N=1 or 2

1=Zones 1-24, 2=Zones 25-48

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 2 Kg

TUBE-PU



LA524-M-S-N



24-ZONE MODULAR LEAK ALARM MANIFOLD (SCREW) (requires connection to LA500 or LM2050 control/display unit)

Kit Includes:

- LA524-M-S Manifold with Screw Release
- 3 Meters PU Tube
- Protection Base

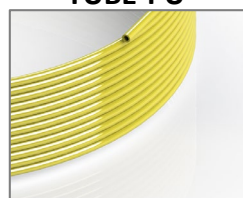
PROGRAMMABLE OPTIONS VIA LA500 or LM2050

N=1 or 2

1=Zones 1-24, 2=Zones 25-48

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 2 Kg

TUBE-PU



24-ZONE BASE

LA524-B-X



24-ZONE MODULAR LEAK ALARM MANIFOLD BASE (Use with LA524-M-H, LA524-M-S, LA524S-M-H, LA524S-M-S, LA520-2L-S-M-H or LA520-2L-S-M-S)

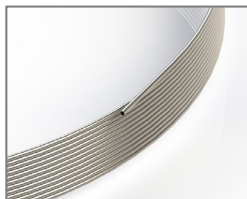
Kit Includes:

- LA524-B Manifold Base
- (24) brackets and screws for Sensor Tube
- 6 Meters 2.5mm Silicone Rubber Tube
- 30 Meters 1.6mm Stainless Steel Sensor Tube

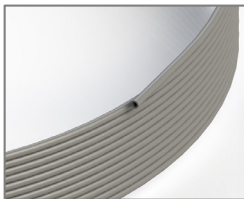
X=Sensor Tube Diameter: 1.6mm or 2.0mm

KIT SIZE(cm) 22 x 28 x 8 WEIGHT 2.4 Kg

TUBE-SS



TUBE-SIL

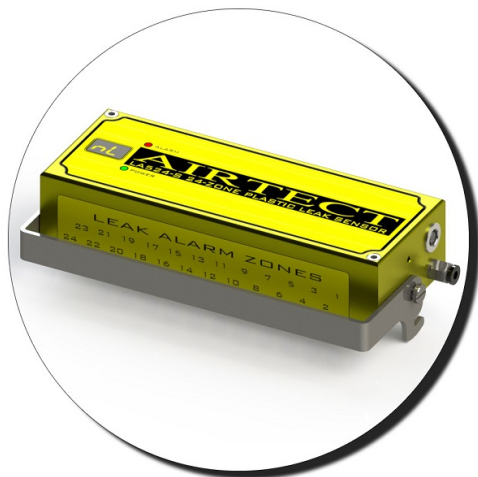


BKT-SS



24-ZONE STAND-ALONE

LA524S-M-H



24-ZONE MODULAR STAND-ALONE LEAK ALARM MANIFOLD (HANDLE) (does NOT require connection to LA500 or LM2050 control/display unit)

Kit Includes:

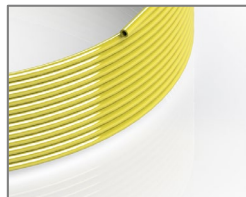
- LA524S Modular Stand-Alone Manifold with Handle Release and LED Display
- 3 Meters PU Tube
- 3 Meters Power/Relay Interlock Cable
- Protection Base

NON-PROGRAMMABLE

CANNOT BE DAISY CHAINED AS PART OF A LARGER SYSTEM

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 2 Kg

TUBE-PU



PCC-S



LA524S-M-S



24-ZONE MODULAR STAND-ALONE LEAK ALARM MANIFOLD (SCREW) (does NOT require connection to LA500 or LM2050 control/display unit)

Kit Includes:

- LA524S Modular Stand-Alone Manifold with Screw Release and LED Display
- 3 Meters PU Tube
- 3 Meters Power/Relay Interlock Cable
- Protection Base

NON-PROGRAMMABLE

CANNOT BE DAISY CHAINED AS PART OF A LARGER SYSTEM

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 2 Kg

TUBE-PU



PCC-S



AIRTECT

ULTIMATE Plastic Leak Alarm System



COMPLETE HOT RUNNER MOLD PROTECTION! DETECT YOUR HOT RUNNER LEAKS EARLY!

- New **ULTIMATE** range of Plastic Leak Detection Manifolds incorporate 'POINT' Leak Detection Zones + 'LOOP' Leak Detection Zones in the one Manifold.
- 'POINT' Plastic Leak Detection Zones are used for the detection of leaking plastic at the Nozzle Gates.
- 'LOOP' Plastic Leak Detection Zones are used for the detection of leaking plastic at numerous locations on the Hot Runner Manifold.
- 'LOOP' Plastic Leak Detection is provided when the Silicone Rubber tubes are Compressed OR Broken due to closed circuit design.
- Available in 3 Manifold Sizes: 6 Point+1 Loop, 12 Point+2 Loops, 20 Point+2 Loops.
- Available as Stand-Alone Manifolds.
- Patent Pending.

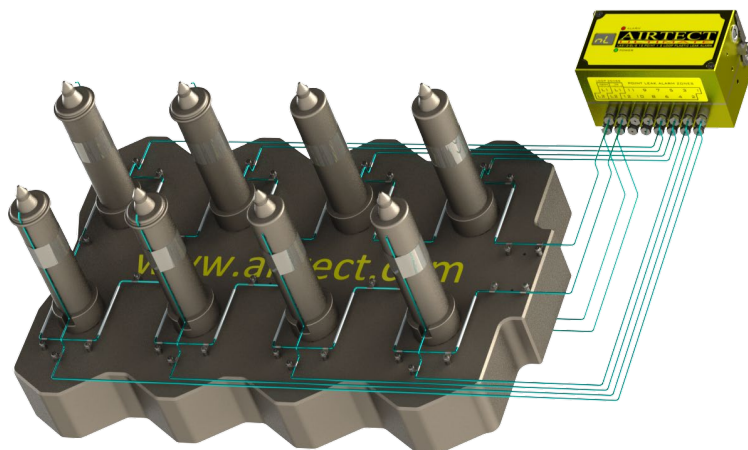
INSTALLATION EXAMPLE USING LA512-2L-S ULTIMATE STAND ALONE MANIFOLD:

'POINT' Plastic Leak Detection Zones:

- 8 used on the Nozzle Gates (4 unused)

'LOOP' Plastic Leak Detection Zones:

- 1 loop circuit used on the 8 x Nozzle/Manifold interfaces.
- 1 loop circuit used on the rear Inlet Bushing/Manifold interface.



6-ZONE + 1 LOOP (Stand-Alone)

LA506-1L-S-X



LA506-1L-S-M-H



+

LA508-B-X



LA506-1L-S-M-S



+

LA508-B-X



6-ZONE + 1 LOOP STAND-ALONE

LA506-1L-S-X



6-ZONE + 1 LOOP FIXED STAND-ALONE LEAK ALARM MANIFOLD (does NOT require connection to LA500 or LM2050 control/display unit)

Kit Includes:

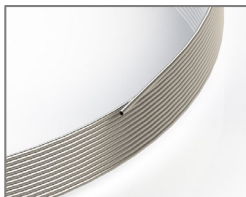
- LA506-1L-S Stand-Alone Manifold (fixed type) with LED Display
- 3 Meters PU Tube
- 4 Meters 2mm Silicone Rubber Tube
- (24) Bracket kits for Sensor Tube
- 3 Meters Power/Relay Interlock Cable
- AR-20GF Air Pressure Regulator + Filter + Gauge + Fittings
- 8 Meters Xmm Stainless Steel Sensor Tube

X=Sensor Tube Diameter: 1.6mm or 2.0mm

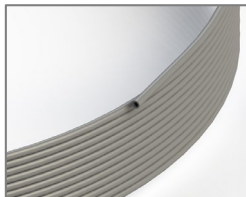
NON-PROGRAMMABLE

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 1 Kg

TUBE-SS



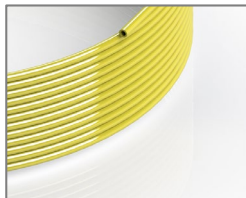
TUBE-SIL



BKT-SS



TUBE-PU



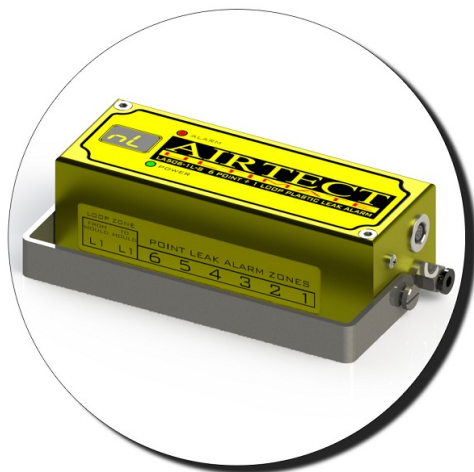
PCC-S



AR-20GF



LA506-1L-S-M-H



6-ZONE + 1 LOOP MODULAR STAND-ALONE LEAK ALARM MANIFOLD (HANDLE) (does NOT require connection to LA500 or LM2050 control/display unit)

Kit Includes:

- LA506-1L-S-M-H Modular Stand-Alone Manifold with Handle Release and LED Display
- 3 Meters PU Tube
- 3 Meters Power/Relay Interlock Cable
- Protection Base
- AR-20GF Air Pressure Regulator + Filter + Gauge + Fittings

NON-PROGRAMMABLE

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 1 Kg

TUBE-PU



PCC-S



AR-20GF



6-ZONE + 1 LOOP STAND-ALONE

LA506-1L-S-M-S



6-ZONE + 1 LOOP MODULAR STAND-ALONE LEAK ALARM MANIFOLD (SCREW) (does NOT require connection to LA500 or LM2050 control/display unit)

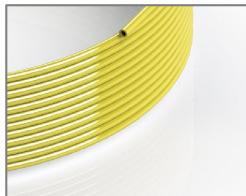
Kit Includes:

- LA506-1L-S-M-S Modular Stand-Alone Manifold with Screw Release and LED Display
- 3 Meters PU Tube
- 3 Meters Power/Relay Interlock Cable
- Protection Base
- AR-20GF Air Pressure Regulator + Filter + Gauge + Fittings

NON-PROGRAMMABLE

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 1 Kg

TUBE-PU



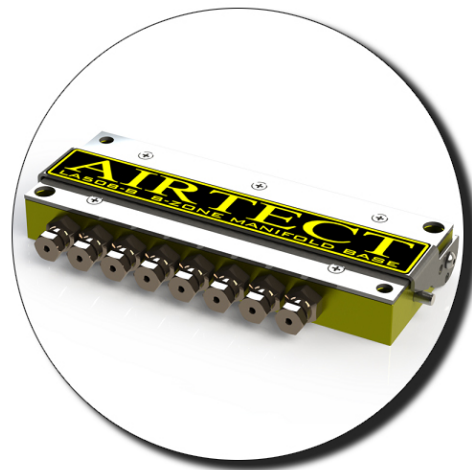
PCC-S



AR-20GF



LA508-B-X



8-ZONE MODULAR LEAK ALARM MANIFOLD BASE (USE WITH LA508-M-H, LA508-M-S, LA508S-M-H, LA508S-M-S, LA506-1L-S-M-H or LA506-1L-S-M-S)

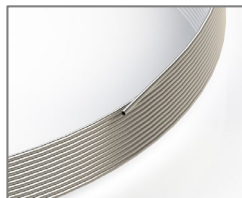
Kit Includes:

- LA508-B Manifold Base
- (8) brackets and (16) screws for Sensor Tube
- 2 Meters 2mm Silicone Rubber Tube
- 10 Meters Xmm Stainless Steel Sensor Tube

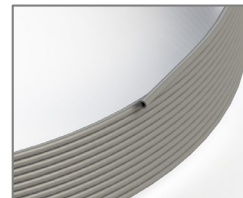
X=Sensor Tube Diameter: 1.6mm or 2.0mm

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 0.8 Kg

TUBE-SS



TUBE-SIL



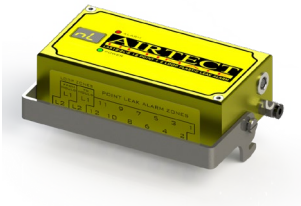
BKT-SS



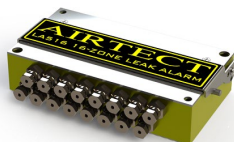
12-Zone + 2 LOOP (Stand-Alone)

LA512-2L-S-M-H

LA516-B-X

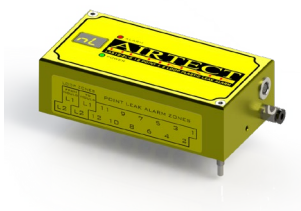


+



LA512-2L-S-M-S

LA516-B-X

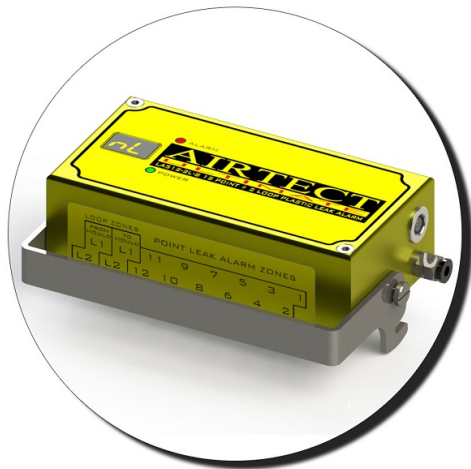


+



12-ZONE + 2 LOOP STAND-ALONE

LA512-2L-S-M-H



12-ZONE + 2 LOOP MODULAR STAND-ALONE LEAK ALARM MANIFOLD (HANDLE) (does NOT require connection to LA500 or LM2050 control/display unit)

Kit Includes:

- LA512-2L-S-M-H Modular Stand-Alone Manifold with Handle Release and LED Display
- 3 Meters PU Tube
- 3 Meters Power/Relay Interlock Cable
- Protection Base
- AR-20GF Air Pressure Regulator + Filter + Gauge + Fittings

NON-PROGRAMMABLE

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 1.5 Kg

TUBE-PU



PCC-S



AR-20GF



LA512-2L-S-M-S



12-ZONE + 2 LOOP MODULAR STAND-ALONE LEAK ALARM MANIFOLD (SCREW) (does NOT require connection to LA500 or LM2050 control/display unit)

Kit Includes:

- LA512-2L-S-M-S Modular Stand-Alone Manifold with Screw Release and LED Display
- 3 Meters PU Tube
- 3 Meters Power/Relay Interlock Cable
- Protection Base
- AR-20GF Air Pressure Regulator + Filter + Gauge + Fittings

NON-PROGRAMMABLE

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 1.5 Kg

TUBE-PU



PCC-S



AR-20GF



12-ZONE + 2 LOOP BASE

LA516-B-X



16-ZONE MODULAR LEAK ALARM MANIFOLD BASE (Use with LA516-M-H, LA516-M-S, LA516S-M-H, LA516S-M-S, LA512-2L-S-M-H or LA512-2L-S-M-S)

Kit Includes:

- LA516-B Manifold Base
- (16)off Bracket and screws for Sensor Tube
- 4 Meters 2.5mm Silicone Rubber Tube
- 20 Meters Xmm Stainless Steel Sensor Tube

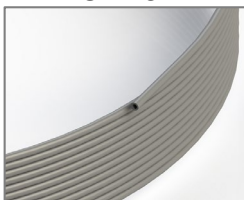
X=Sensor Tube Diameter: 1.6mm or 2.0mm

KIT SIZE(cm) 22 x 28 x 8 WEIGHT 1.4 Kg

TUBE-SS



TUBE-SIL



BKT-SS



20-Zone + 2 LOOP (Stand-Alone)

LA520-2L-S-M-H

LA524-B-X



LA520-2L-S-M-S

LA524-B-X



20-ZONE + 2 LOOP STAND-ALONE

LA520-2L-S-M-H



20-ZONE + 2 LOOP MODULAR STAND-ALONE LEAK ALARM MANIFOLD (HANDLE) (does NOT require connection to LA500 or LM2050 control/display unit)

Kit Includes:

- LA520-2L-S-M-H Modular Stand-Alone Manifold with Handle Release and LED Display
- 3 Meters PU Tube
- 3 Meters Power/Relay Interlock Cable
- Protection Base
- AR-20GF Air Pressure Regulator + Filter + Gauge + Fittings

NON-PROGRAMMABLE

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 2 Kg

TUBE-PU



PCC-S



AR-20GF



LA520-2L-S-M-S



20-ZONE + 2 LOOP MODULAR STAND-ALONE LEAK ALARM MANIFOLD (SCREW) (does NOT require connection to LA500 or LM2050 control/display unit)

Kit Includes:

- LA520-2L-S-M-S Modular Stand-Alone Manifold with Screw Release and LED Display
- 3 Meters PU Tube
- 3 Meters Power/Relay Interlock Cable
- Protection Base
- AR-20GF Air Pressure Regulator + Filter + Gauge + Fittings

NON-PROGRAMMABLE

KIT SIZE(cm) 22 x 28 x 8 KIT WEIGHT 2 Kg

TUBE-PU



PCC-S



AR-20GF



20-ZONE + 2 LOOP BASE

LA524-B-X



24-ZONE MODULAR LEAK ALARM MANIFOLD BASE (Use with LA524-M-H, LA524-M-S, LA524S-M-H, LA524S-M-S, LA520-2L-S-M-H or LA520-2L-S-M-S)

Kit Includes:

- LA524-B Manifold Base
- (24) brackets and screws for Sensor Tube
- 6 Meters 2.5mm Silicone Rubber Tube
- 30 Meters Xmm Stainless Steel Sensor Tube

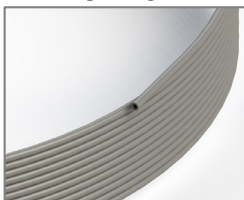
X=Sensor Tube Diameter: 1.6mm or 2.0mm

KIT SIZE(cm) 22 x 28 x 8 WEIGHT 2.4 Kg

TUBE-SS



TUBE-SIL

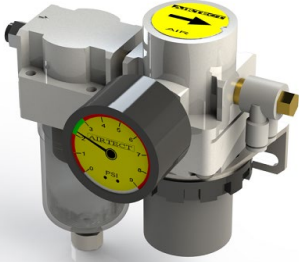


BKT-SS



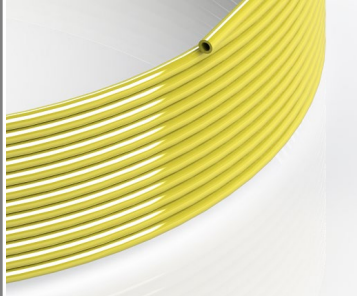
ACCESSORIES

AR-20GF



Air Pressure Regulator with gauge, air filter and fittings

TUBE-PU-10M



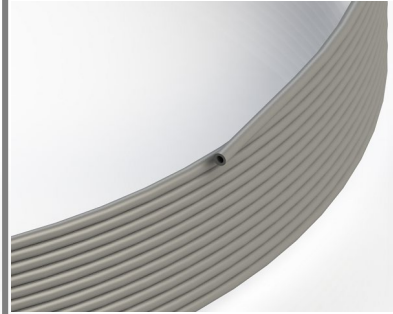
10mm Coil of 4mm PU (Plastic) Tubing

PCC-X



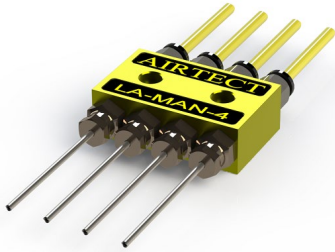
Power / Communication Cable

TUBE-SIL-10M-X



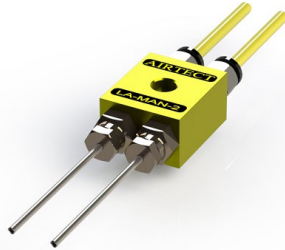
10 Meter Coil of 2.5mm Silicone Rubber Tubing

LA-MAN-4-X



4-Zone Tube Adaptor

LA-MAN-2-X



2-Zone Tube Adaptor

NUT-SS-X



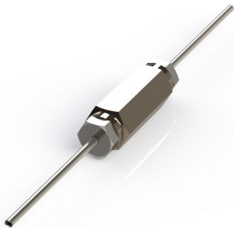
Nut and Olive Set of 5 for Stainless Steel Tubing

FIT-PU-SS-X



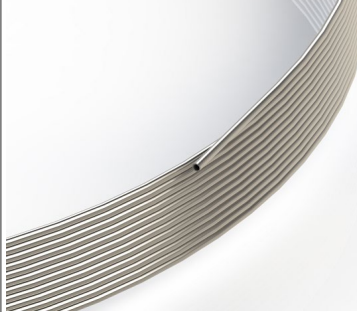
Joiner Fitting for 4mm PU (Plastic) Tube

FIT-SS-SS-X



Joiner Fitting for Stainless Steel Tubing

TUBE-SS-10M-X



10 Meter Coil of Stainless Steel Tubing

BKT-SS



Mounting Bracket Set of 10 for Stainless Steel Tubing

PCC-S-X



Power / Relay Interlock Cable

ACCESSORIES

AR-20GF

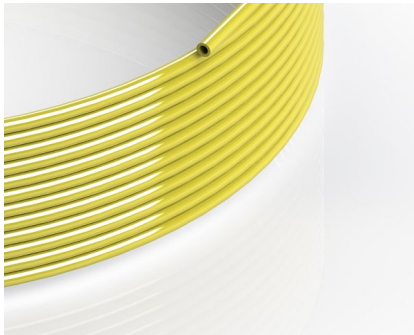


**AIR PRESSURE REGULATOR WITH PRESSURE GAUGE,
AIR FILTER AND FITTINGS**

Use with LA500 and LM2050 Injection Nozzle Plastic
Leak Alarm and Control Units

WEIGHT 0.35 Kg

TUBE-PU-10M



10 METER COIL OF 4mm PU (plastic) TUBING

Use for air connections between Control Units,
Manifolds, Regulators and Supply

WEIGHT 0.05 Kg

PCC-X



POWER/COMMUNICATION CABLE X Meter

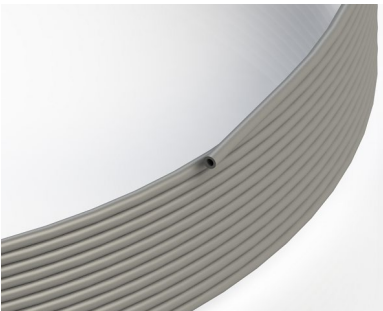
Use to connect LA500 or LM2050 to Manifold or Manifold to Manifold
(daisy chain) up to 32 Channels.

Standard sizes are (Meters):

X = 0.6 X = 1.5 X = 3 X = 5 X = 10

WEIGHT 0.10 Kg

TUBE-SIL-10M-X



10 METER COIL OF Xmm SILICONE RUBBER TUBING

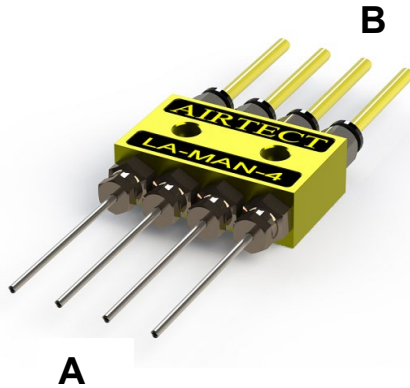
Use to make Sensor Tube ends for LA500 and LM2050 and use to extend
the range of LA508/LA516 leak detection.

X=2.0mm or 2.5mm

WEIGHT 0.05 Kg

ACCESSORIES

LA-MAN-4-X



4-ZONE TUBE ADAPTOR MANIFOLD(Use to join Stainless Steel Tube to Stainless Steel Tube or PU Tube)

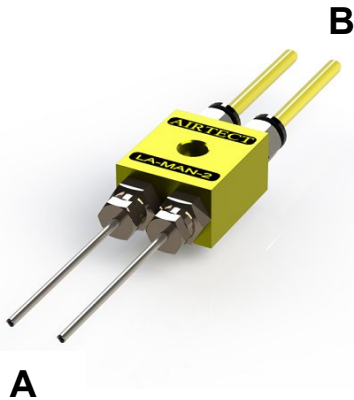
Kit Includes:

- LA-MAN-4-X Manifold and Fittings to suit the following Tube Sizes:

X=1	A=SS1.6mm	B=SS1.6mm
X=2	A=SS1.6mm	B=SS2.0mm
X=3	A=SS1.6mm	B=PU4.0mm
X=4	A=SS2.0mm	B=SS2.0mm
X=5	A=SS2.0mm	B=PU4.0mm
X=6	A=PU4.0mm	B=PU4.0mm

WEIGHT 0.15 Kg

LA-MAN-2-X



2-ZONE TUBE ADAPTOR MANIFOLD(Use to join Stainless Steel Tube to Stainless Steel Tube or PU Tube)

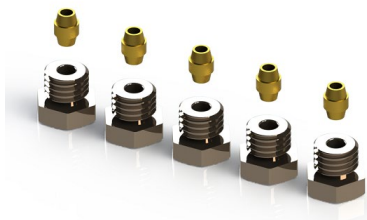
Kit Includes:

- LA-MAN-2-X Manifold and Fittings to suit the following Tube Sizes:

X=1	A=SS1.6mm	B=SS1.6mm
X=2	A=SS1.6mm	B=SS2.0mm
X=3	A=SS1.6mm	B=PU4.0mm
X=4	A=SS2.0mm	B=SS2.0mm
X=5	A=SS2.0mm	B=PU4.0mm
X=6	A=PU4.0mm	B=PU4.0mm

WEIGHT 0.07 Kg

NUT-SS-X



NUT and OLIVE SET (5pcs) FOR Xmm OD STAINLESS STEEL TUBING

Use to connect Stainless Steel Sensor Tube to Manifold (LA508, LA508-B or LA516-B)

X = 1.6 for 1.6mm Sensor Tubing
X = 2.0 for 2.0mm Sensor Tubing

WEIGHT 0.02 Kg

PCC-S-X



POWER/RELAY INTERLOCK CABLE X Meter

Use to connect Stand Alone Manifolds to DC Power and Interlock Relay connections

Standard sizes are (Meters):

X = 3 X = 5 X = 10

WEIGHT 0.10 Kg

ACCESSORIES

FIT-PU-SS-X



JOINER FITTING FOR 4mm PU TUBE TO Xmm OD STAINLESS STEEL TUBING

Use to connect PU Tube to Stainless Steel Sensor Tubing

X = 1.6 for 1.6mm Sensor Tubing

X = 2.0 for 2.0mm Sensor Tubing

FIT-SS-SS-X



JOINER FITTING FOR Xmm OD STAINLESS STEEL TUBING

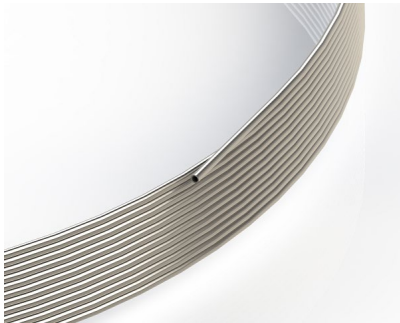
Use to connect Stainless Steel Sensor Tube to Stainless Steel Sensor Tubing

X = 1.6 for 1.6mm Sensor Tubing

X = 2.0 for 2.0mm Sensor Tubing

WEIGHT 0.01 Kg

TUBE-SS-10M-X



10 METER COIL OF Xmm OD STAINLESS STEEL TUBING

Use as Sensor Tubing within Hot Runner mold or molding Machine Barrel/Nozzle

X = 1.6 for 1.6mm Sensor Tubing

X = 2.0 for 2.0mm Sensor Tubing

WEIGHT 0.15 Kg

BKT-SS



MOUNTING BRACKET SET (10pcs) FOR STAINLESS STEEL TUBING

Use to secure Stainless Steel Sensor Tube to Hot Runner Manifold/Mold Plate, etc.

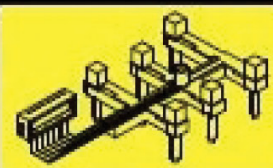
Kit Includes:

- 10 x Mounting Brackets
- 20 x 2.9mm Self Tapping Stainless Screws
- Suitable for 1.6mm or 2.0mm Sensor Tube

WEIGHT 0.01 Kg

AIRTECT

Plastic Leak Alarm System



North American Distributor:

Plastixs, LLC

151 Memorial Drive, Unit H

Shrewsbury, MA 01545

888-792-2223

508-842-1606

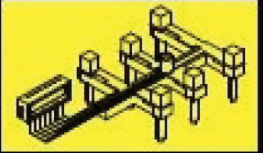
sales@plastixs.com

www.plastixs.com

plastixs[®]
manufacturing solutions

AIRTECT

Plastic Leak Alarm System



INSTALLATION GUIDE



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AIRTECT DISTRIBUTOR

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AIRTECT DISTRIBUTOR

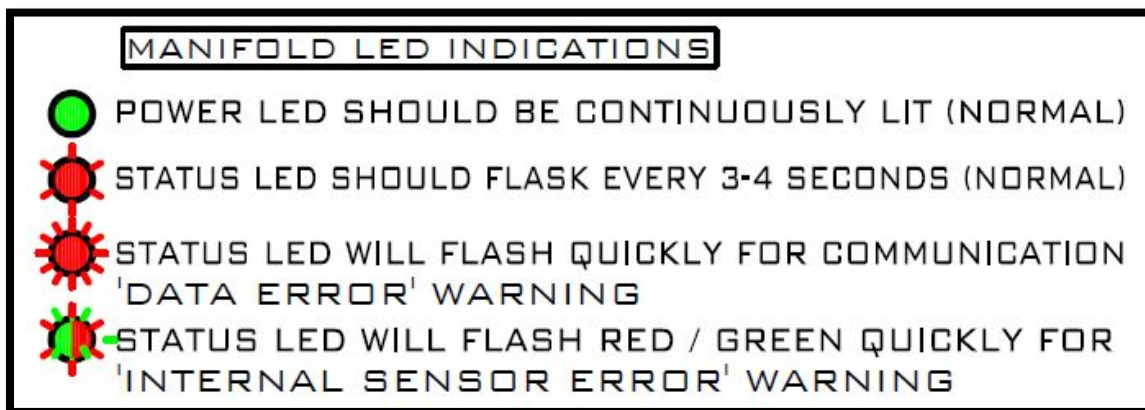
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manufacturing solutions

INSTALLATION GUIDE

Important Installation / Operation Note

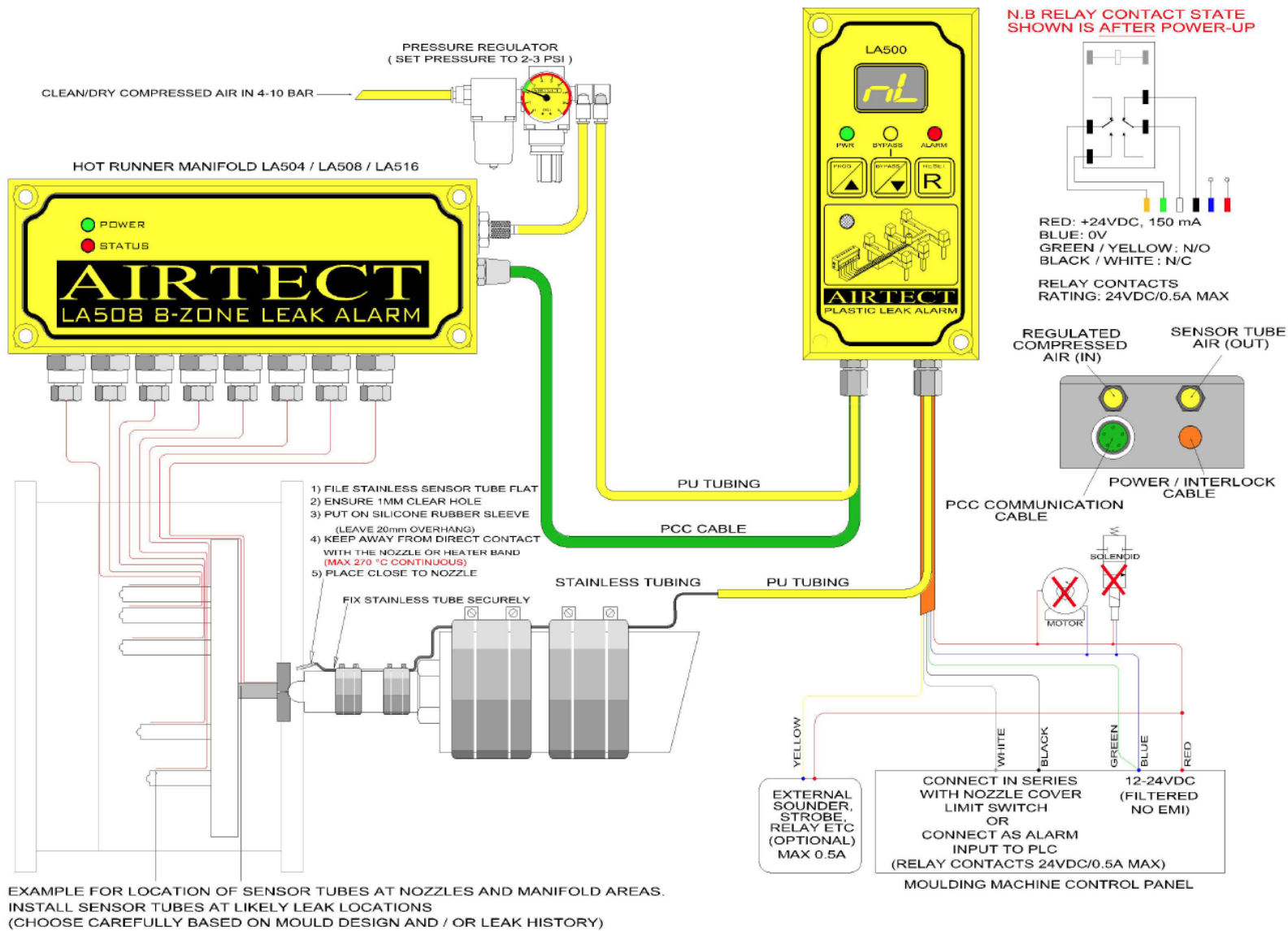
1. The DC Power Source must be interference free. This means no Electromagnetic Interference (EMI) caused by solenoids and servomotors etc.
2. The internal interlock relay contacts have a capacity to switch loads of 24Vdc at a maximum current of 0.5A.
3. Ensure neat workmanship and run the wiring and plastic tubing within the machine enclosure where possible.
4. Ensure that both ends of all sensor tubes are cut neatly so as to provide a clear inner sensor tube diameter of 0.8mm (for 1.6mm tube) and 1mm (for 2mm tube).
5. When using expansion manifolds (LA504, LA508 etc) ensure the LA500 or LM2050 has been programmed to accept the manifold/s and that it/they are connected, otherwise a communication alarm will be displayed and vice-versa if the LA500 or LM2050 has not been programmed and a manifold is connected, a communication alarm will be displayed.
6. **Electrical power should only be switched on AFTER the sensor tube installation is complete and the air supply is energised to allow the 'self teaching' function to work.**
7. **When using Modular systems, the manifolds must be mounted on the manifold base before applying electrical power as all mould leak sensor installations will be somewhat different.**

Manifold LED Indications (for manifolds using the programmable controller)



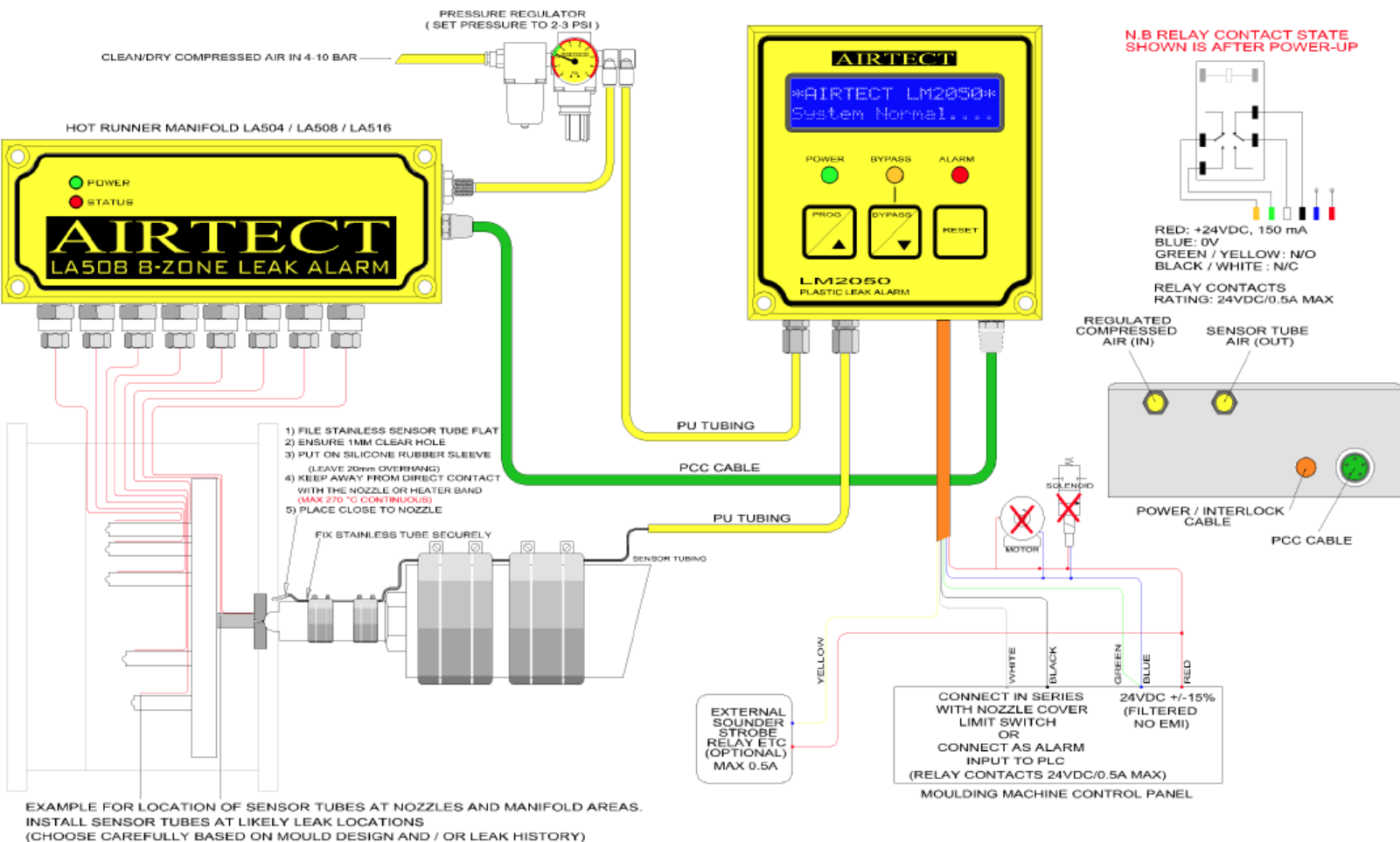
INSTALLATION GUIDE

LA500 Example



INSTALLATION GUIDE

LM2050 Example

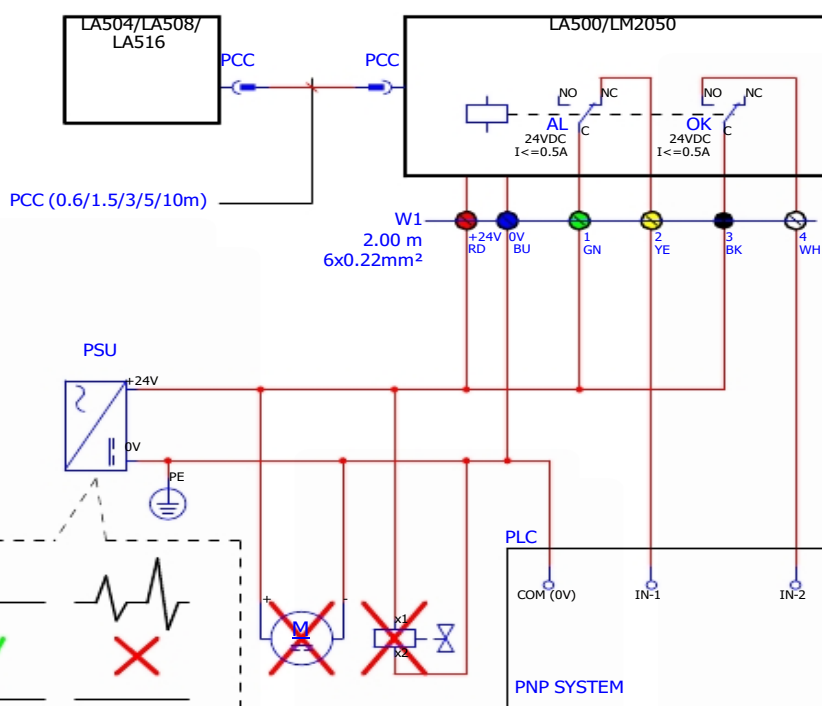


INSTALLATION GUIDE



LM2050, and LA500 ELECTRICAL INSTALLATION (single nozzle and multi-zone)

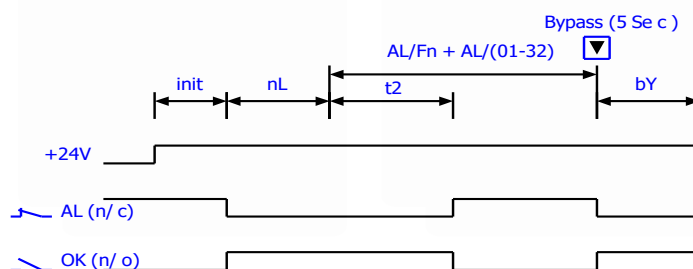
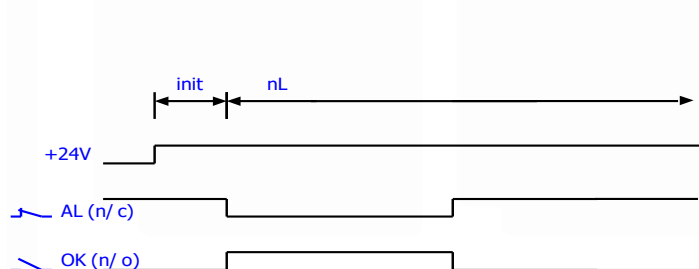
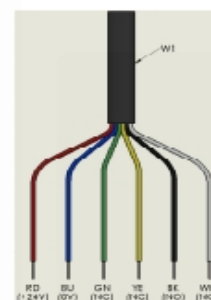
PNP SYSTEM



LA500



LM2050

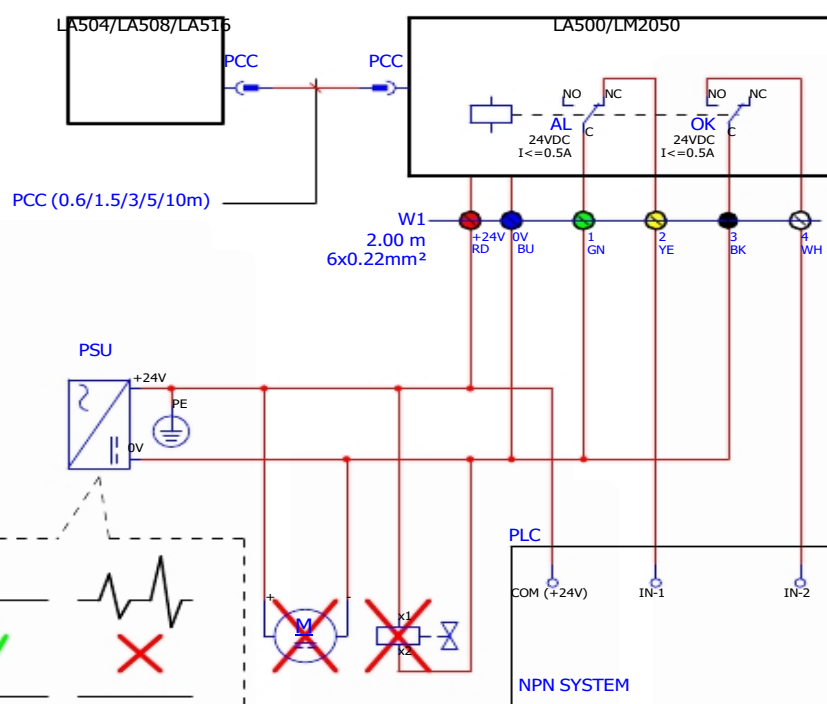


INSTALLATION GUIDE



LM2050, and LA500 ELECTRICAL INSTALLATION (single nozzle and multi-zone)

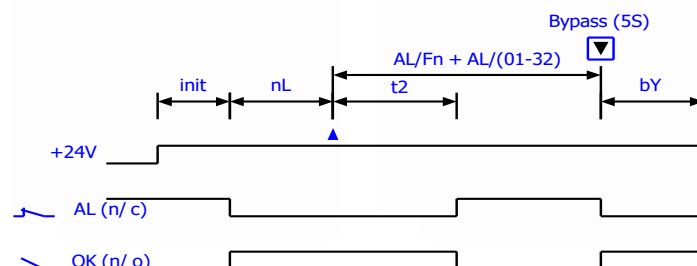
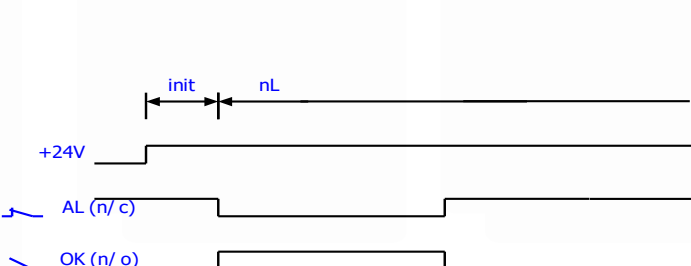
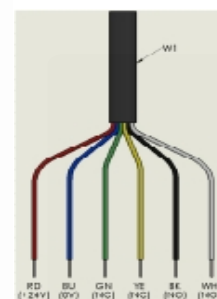
NPN SYSTEM



LA500

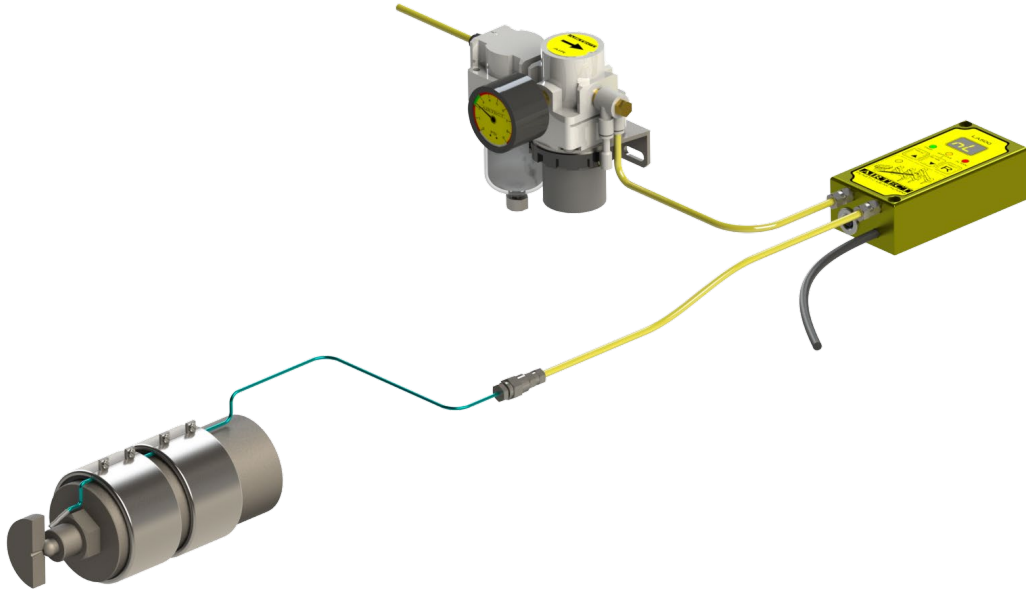


LM2050

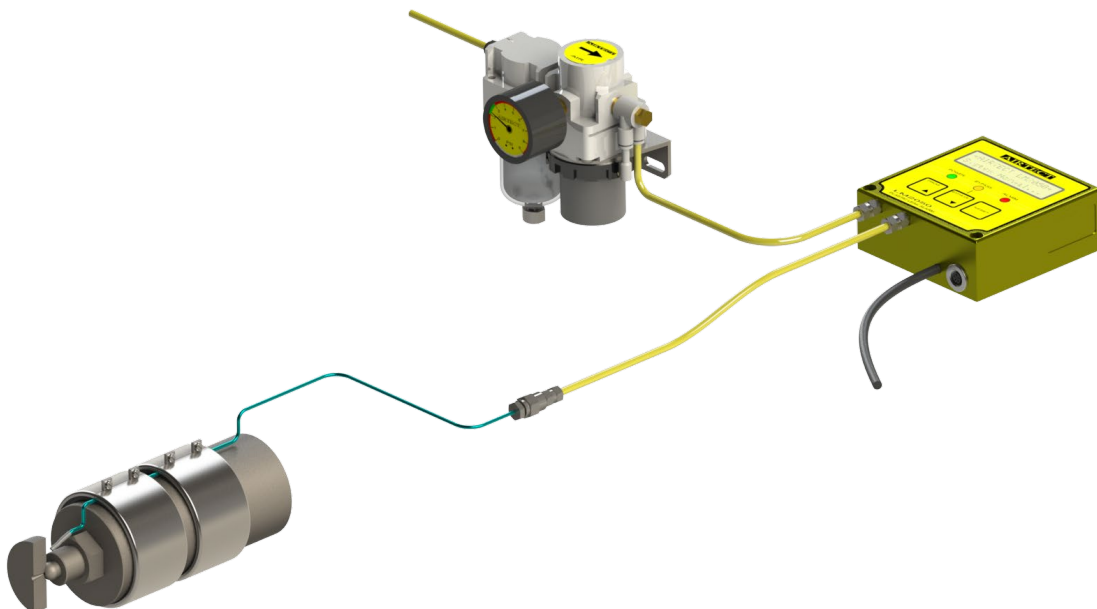


INSTALLATION GUIDE

LA500 with Injector Nozzle Example

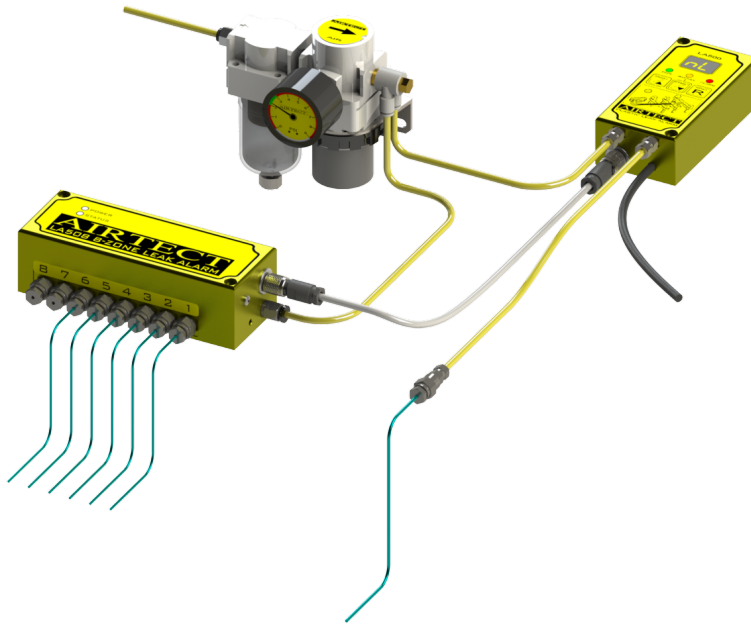


LM2050 with Injector Nozzle Example

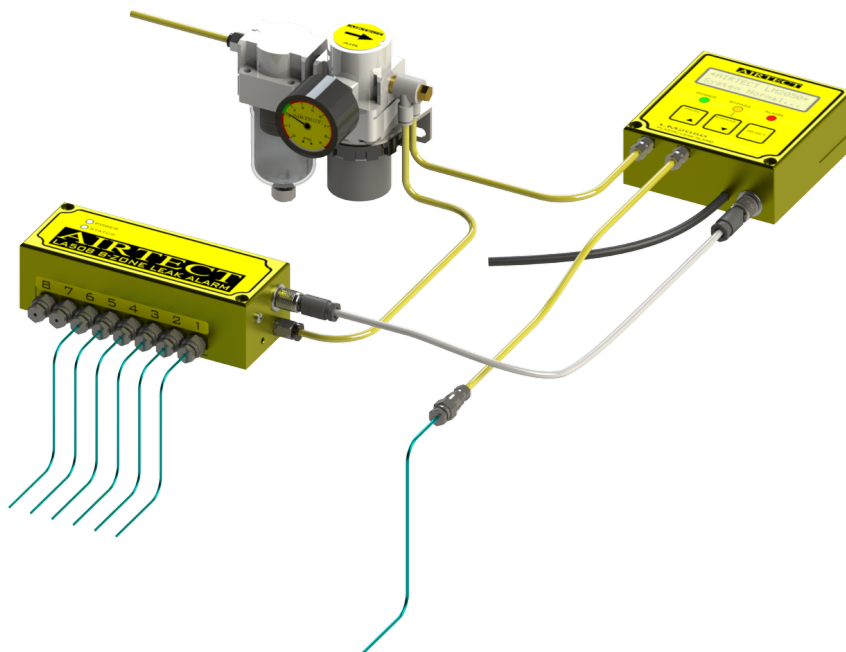


INSTALLATION GUIDE

LA500 + LA508 Example

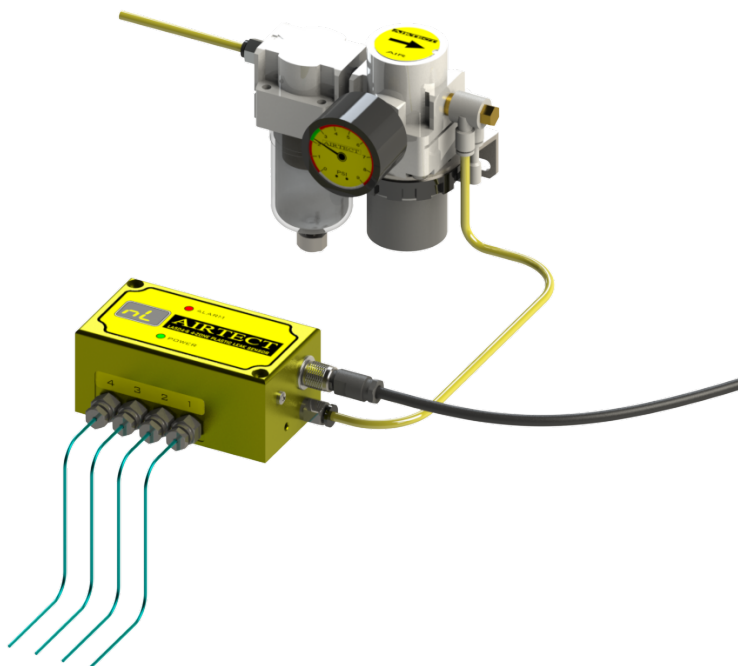


LM2050 + LA508 Example

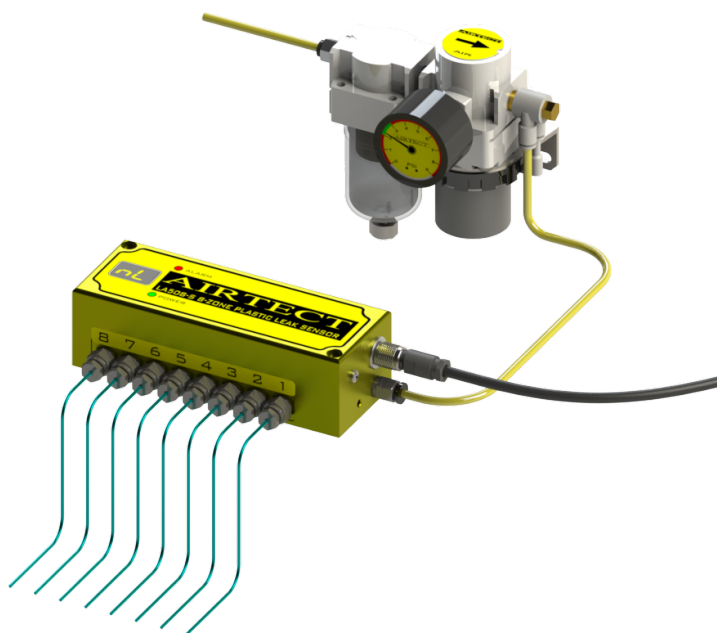


INSTALLATION GUIDE

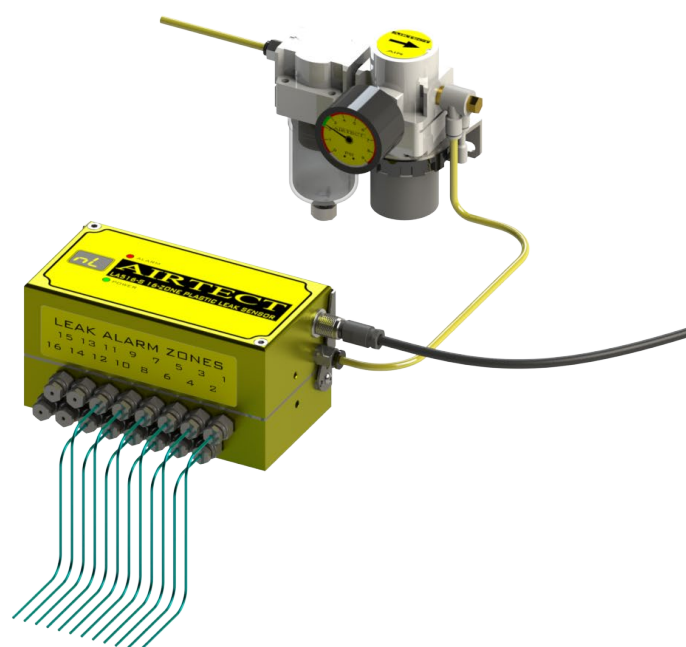
LA504S Example



LA508S Example



LA516S Example



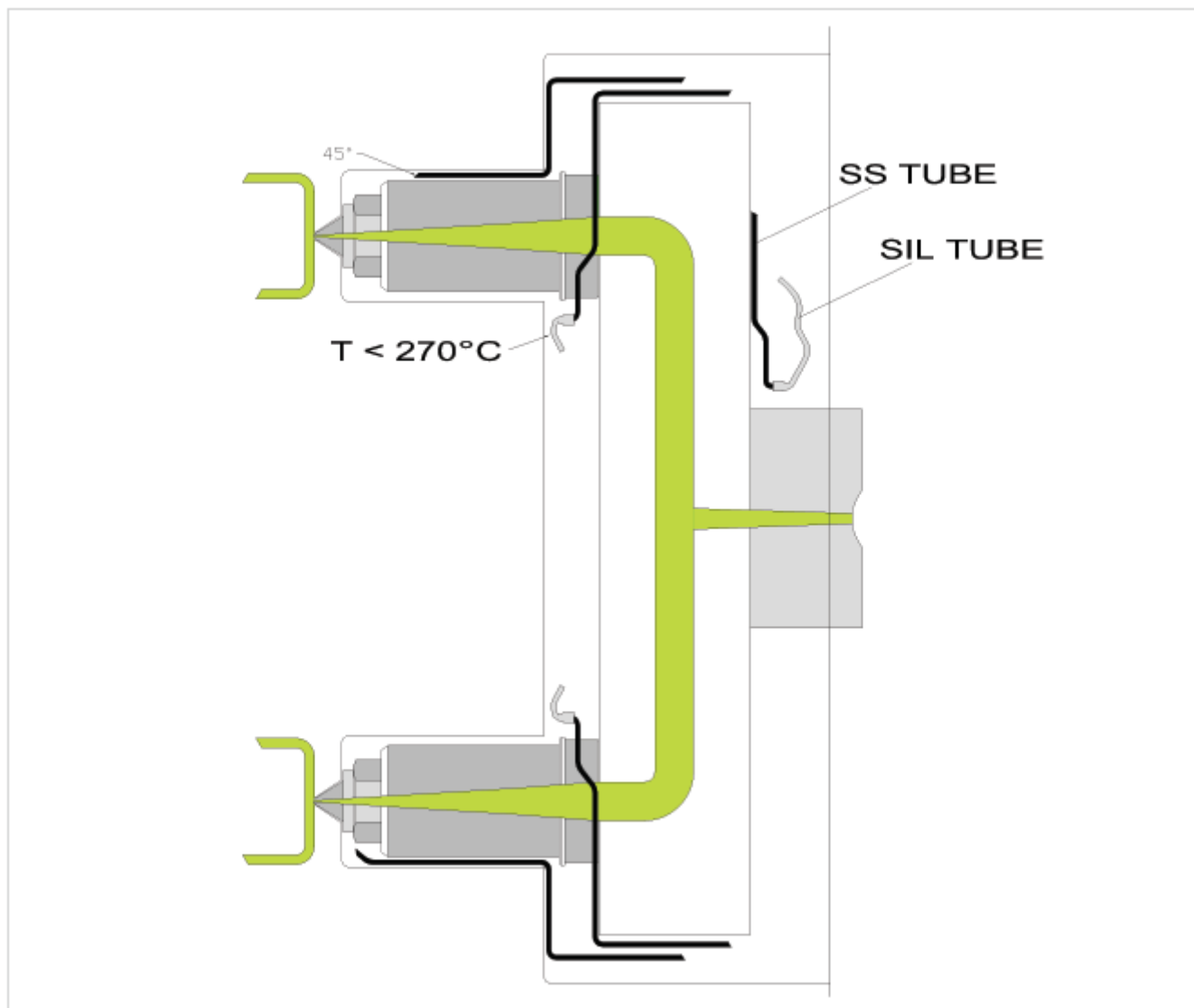
INSTALLATION GUIDE

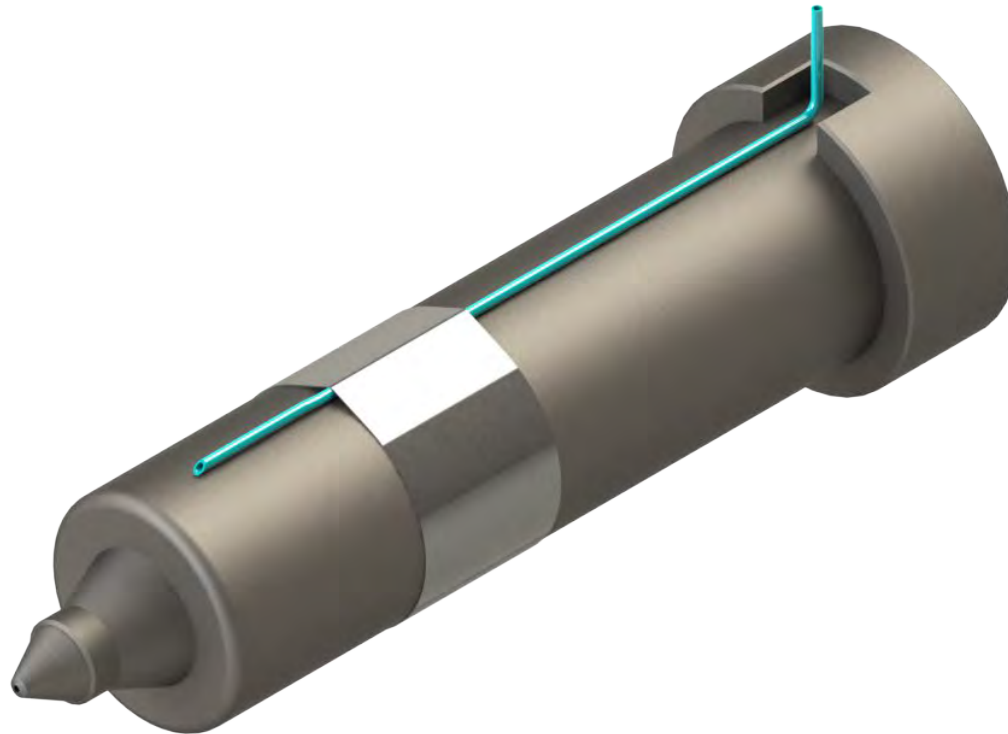
LA-500 – LA504 / LA508 / LA516 Installation to Hot Nozzles and Hot Channels

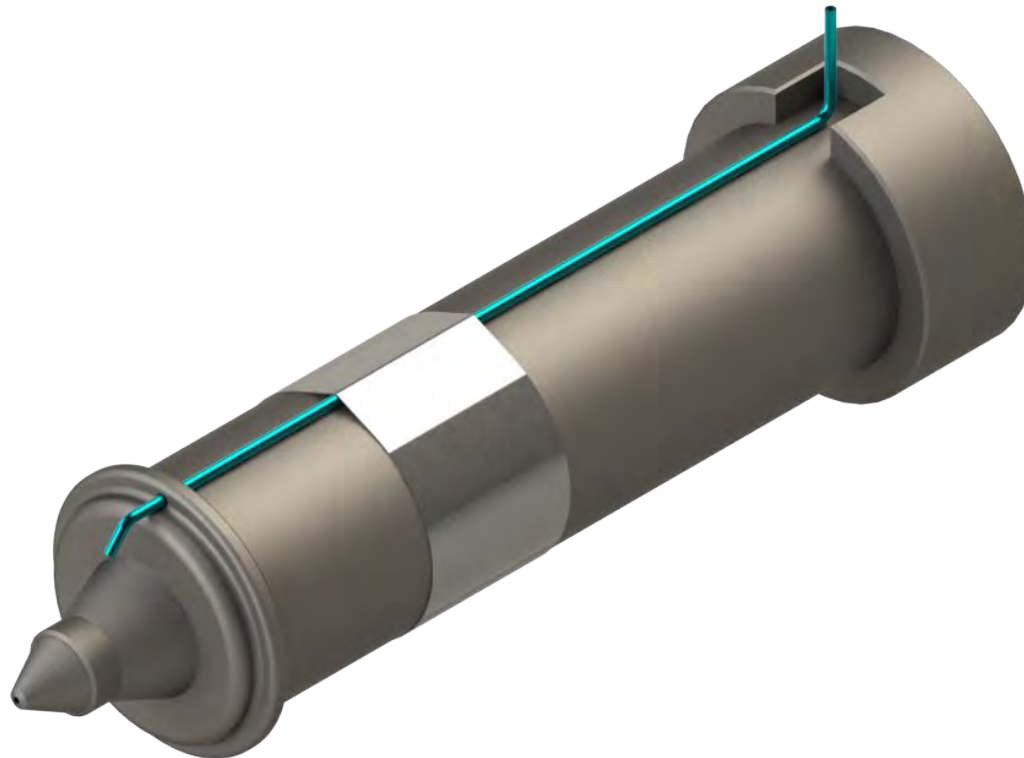
EXAMPLE LOCATIONS OF SENSOR TUBES AT NOZZLES AND MANIFOLD AREAS

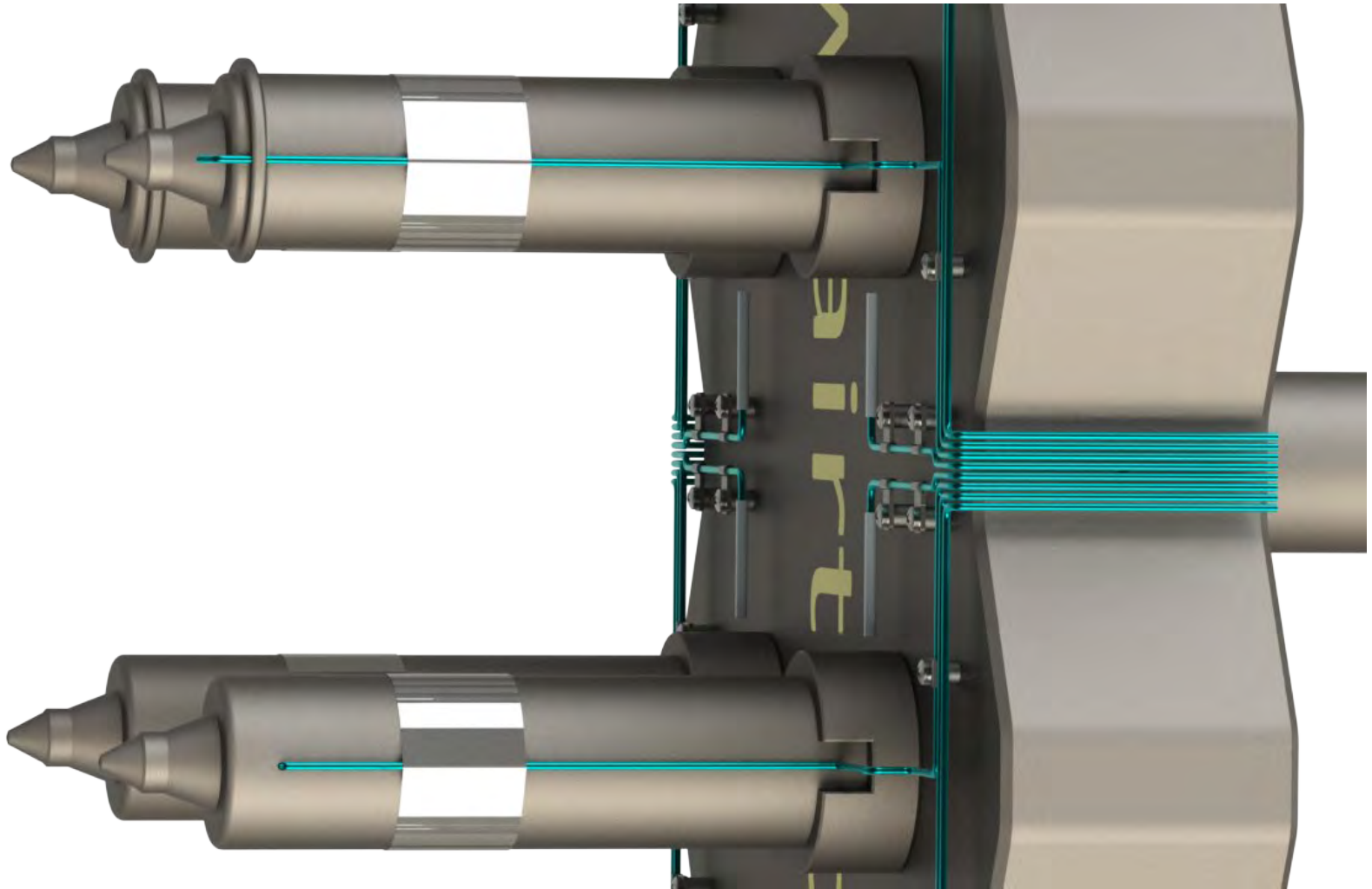
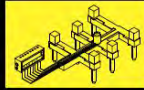
Install sensor tubes at locations most likely to leak.
(choose carefully based on mold design and/or leak history)

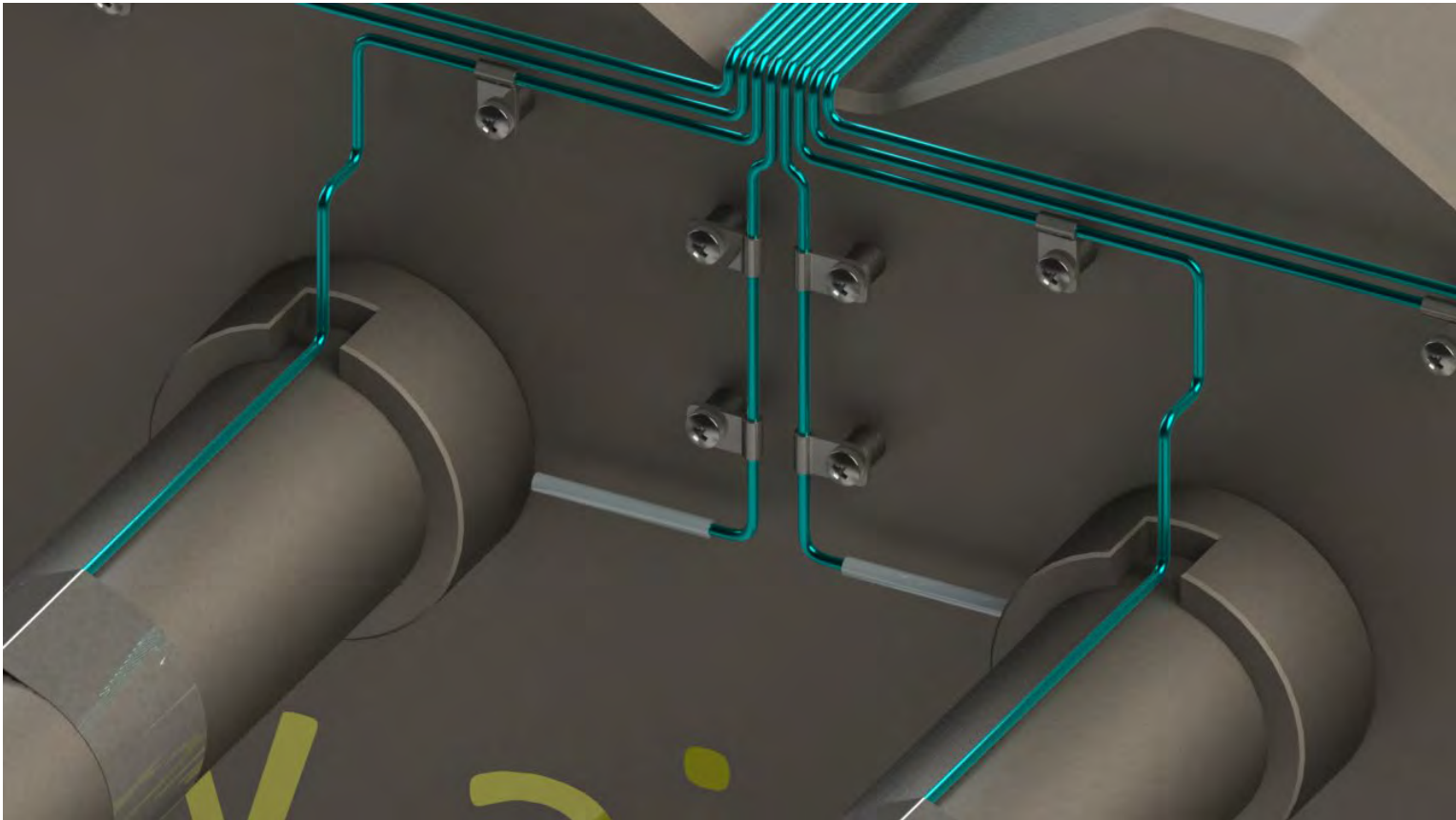
DO NOT LAY SENSOR TUBE ENDS FLAT ON MANIFOLD! OFFSET THE ENDS FOR 25MM, THEN TURN PU AND ADD A 30MM SILICONE RUBBER TAIL.

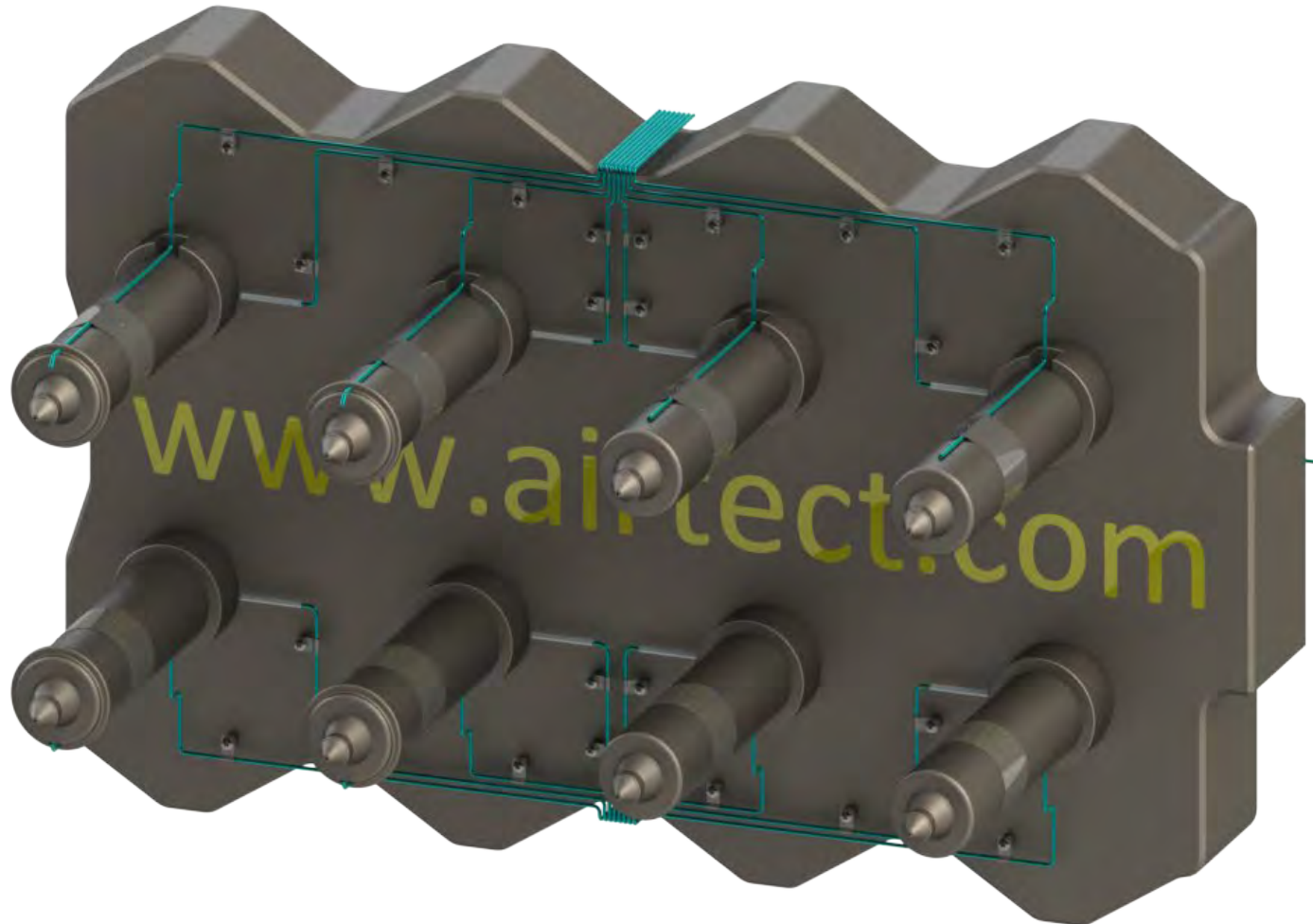


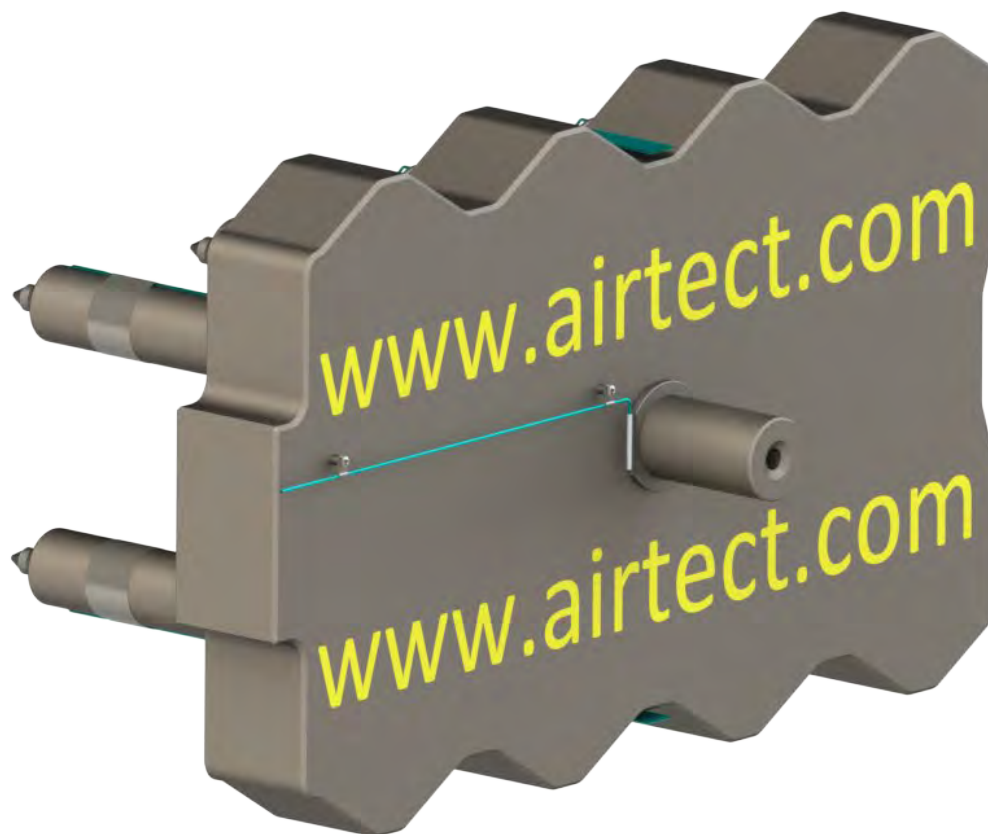


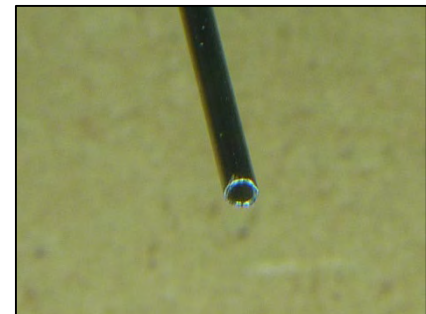
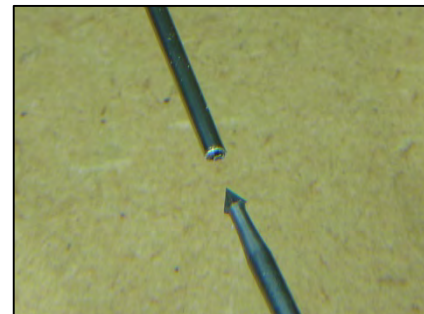
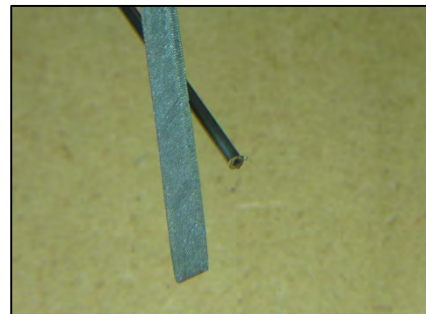
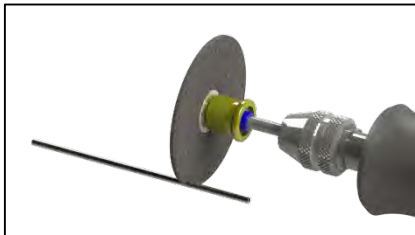
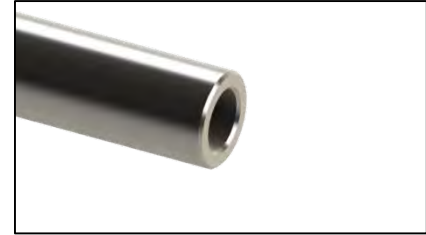
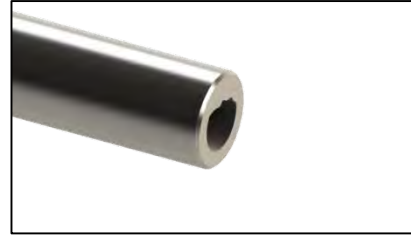
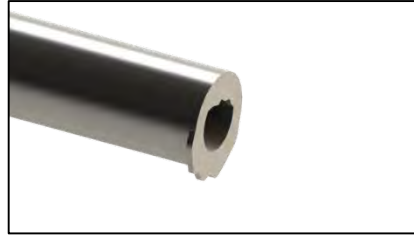


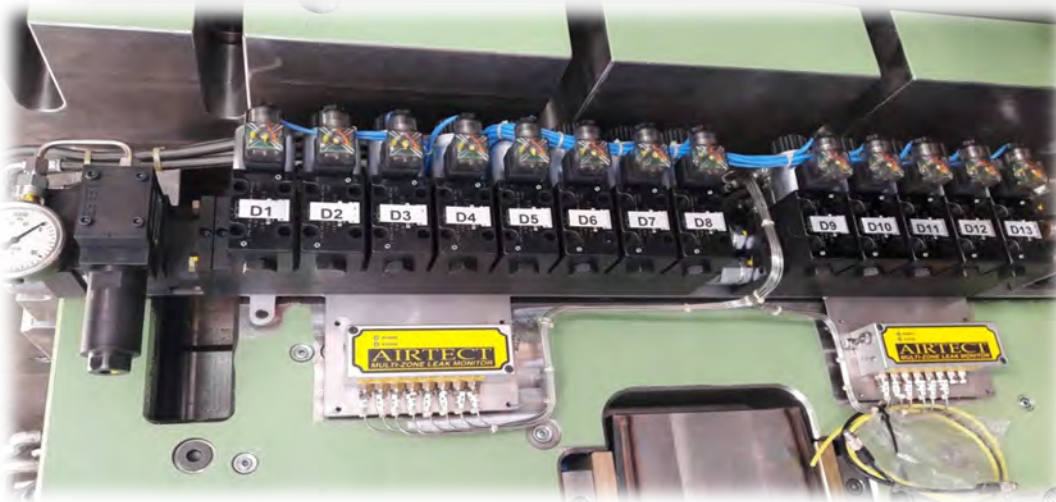




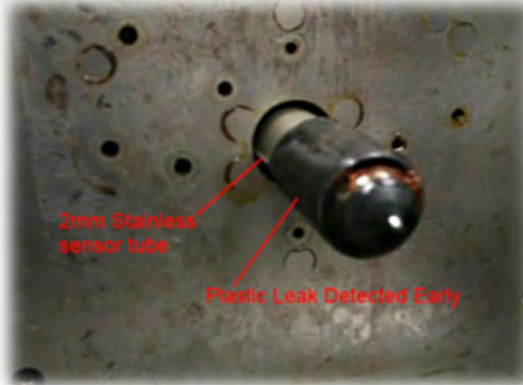


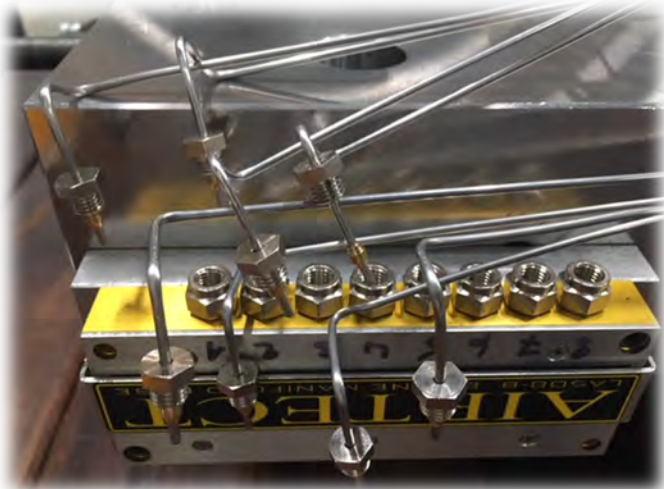






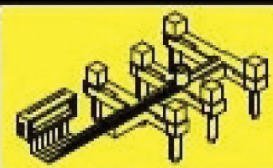
16-CHANNEL INSTALLATION





AIRTECT

Plastic Leak Alarm System



North American Distributor:

Plastixs, LLC

151 Memorial Drive, Unit H

Shrewsbury, MA 01545

888-792-2223

508-842-1606

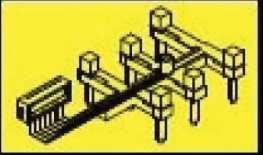
sales@plastixs.com

www.plastixs.com

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manufacturing solutions

AIRTECT

Plastic Leak Alarm System



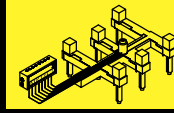
BROCHURE



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AIRTECT DISTRIBUTOR

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manufacturing solutions



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The solution....

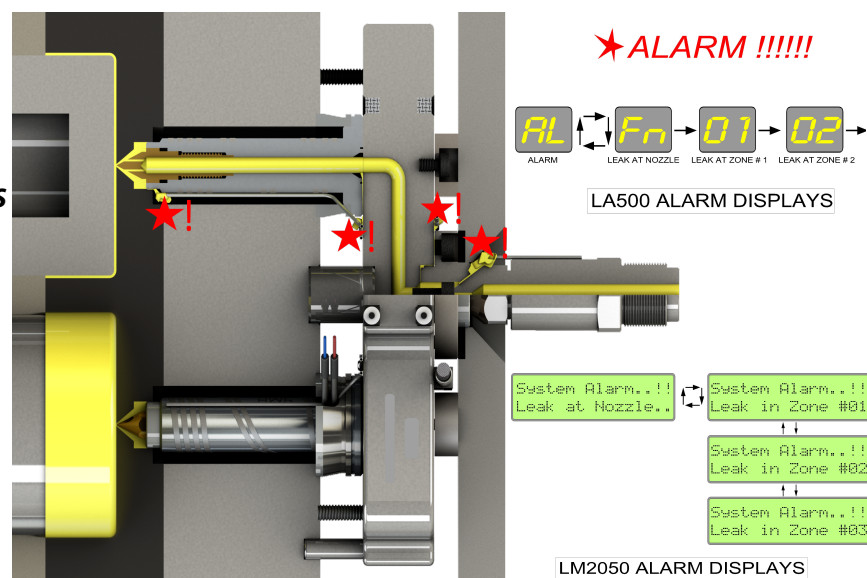


...to these problems



Modular and Fixed Leak Detection Systems

- Nozzle, Barrel and Hot Runner Mold Protection up to 32 Zones
- Direct Plastic Leak Presence Detection
- Robust 2mm Stainless Steel Sensor Tubes
- Mold Temperature Monitoring
- Programmable Machine Interlocks
- Fast Payback
- 24-Hour Peace of Mind
- Easy Installation



Why Airtect?

The Airtect Plastic Leak Alarm System is a unique device which gives protection against plastic leak damage, either within a Hot Runner Mold or at the machine Injection Nozzle.

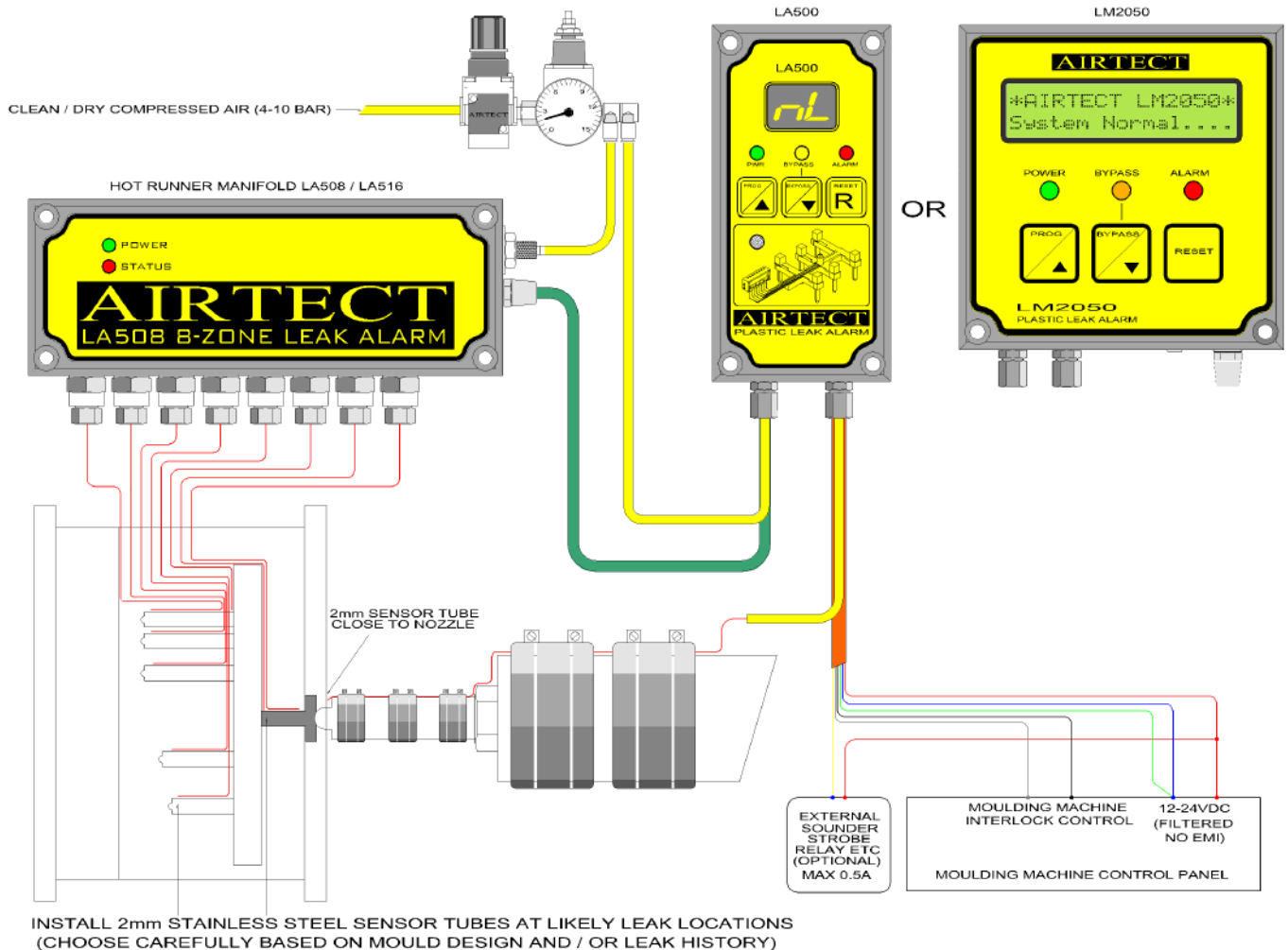
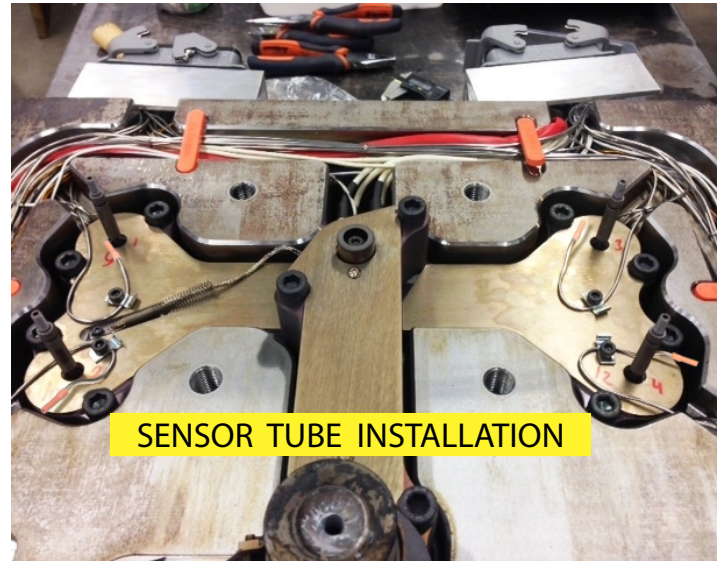
Sensor Tubes easily locate within existing wiring channels.

Leak location/s is displayed on LED or LCD Clear Text Display.

It also protects against running molds that are under/over temperature.

It gives less downtime and greatly reduced repair costs.

Home



AIRTECT

LA500 / LM2050 NOZZLE AND HOT RUNNER MOULD PROTECTION

'don't leave a mold without it'

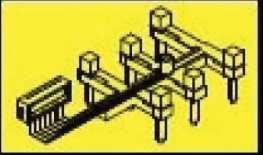
Plastixs, LLC • 151 Memorial Drive, Unit H • Shrewsbury • MA • 01545

www.plastixs.com / AIRTECT / sales@plastixs.com

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AIRTECT

Plastic Leak Alarm System



PRESENTATION

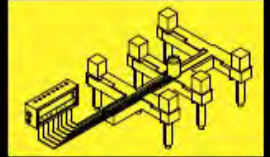


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AIRTECT DISTRIBUTOR

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manufacturing solutions

AIRTECT



Plastic Leak Alarm System

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**DETECT YOUR NOZZLE AND
HOT RUNNER LEAKS EARLY!**

REPRESENTED BY:

plastixs[®]
manufacturing solutions

WHAT IS AIRTECT?

THE AIRTECT PLASTIC LEAK ALARM SYSTEM IS A UNIQUE DEVICE WHICH ASSISTS IN PREVENTING DAMAGE CAUSED BY LEAKING MOLTEN PLASTIC MATERIAL AT THE MAIN INJECTION NOZZLE OF INJECTION MOULDING MACHINES AND ALSO WITHIN HOT RUNNER MOULDS.

IT IS BEING USED WORLDWIDE BY MANY WELL KNOWN COMPANIES SUCH AS IAC, VALEO, MAGNA, BD, HELLA, POLYPIPE... TO NAME BUT A FEW.

AIRTECT PRODUCTS ARE REPRESENTED WORLDWIDE BY A NETWORK OF DISTRIBUTORS.



plastiXs[®]
manufacturing solutions

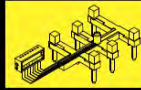
WHY USE AIRTECT?

Because of an industry wide problem.....Leaks of molten Plastic Material at the Main Injection Nozzle and within Hot Runner Moulds:

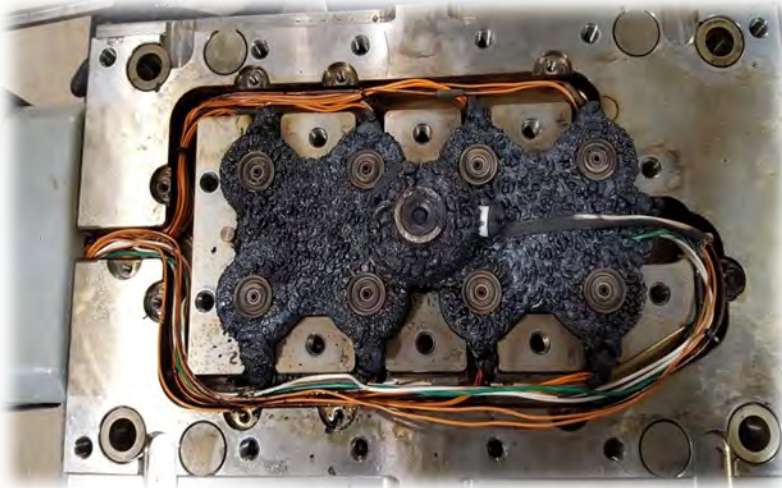


BECAUSE OF THIS!



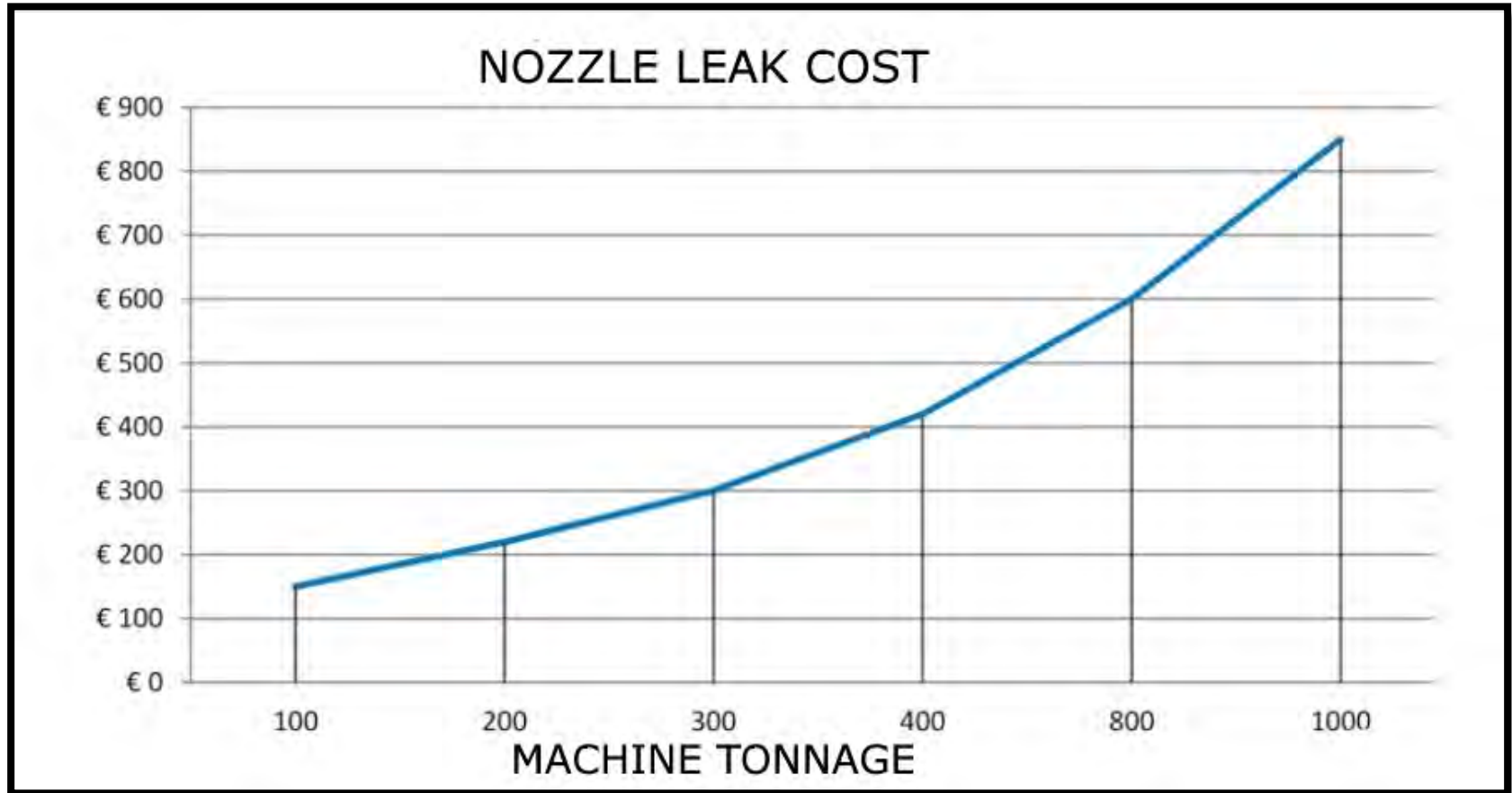


AND THIS.....!



The tangible costs include replacement heater bands and thermocouples, maintenance labour and machine downtime.

(intangible costs can be reputational damage due to late deliveries and health and safety issues)



AIRTECT



Plastic Leak Alarm System

DETECT YOUR NOZZLE AND
HOT RUNNER LEAKS EARLY!!

Home

PRINCIPLE OF OPERATION.....



Control/Display Units

4, 8 and 16-Zone Manifolds + Stand-Alone Manifolds



**A PROVEN EFFECTIVE SOLUTION TO REDUCE THE DAMAGE
AND COST OF THESE LEAKS.....**

LA500



LM2050



BENEFITS:

- Nozzle and Barrel Protection
- Significantly Reduced Budget for Maintenance Items
- Increased Health and Safety
- Reduced Downtime
- Peace of Mind for Unattended Machines

LA500

Functions as an Injection Nozzle Leak Alarm + Display and Control Unit and can be connected to Multi-Zone Manifold Units for Hot Runner Leak Detection.



INJECTION NOZZLE PLASTIC LEAK ALARM (AND CONTROL UNIT FOR LA508/516 MANIFOLD)

Kit Includes:

- LA500 with 2 x 7-segment LED display with programmable operational settings
- AR-20GF Air Pressure Regulator with Pressure Gauge, Air Filter and Fittings
- 3 Meters PU Tube
- 0.5 Metres 2.5mm Silicone Rubber Tube
- 3 Meters 2mm Stainless Steel Sensor Tube
- Installation/Operation Manual
- 2 Meter Electrical Power/Interlock Cable

LM2050

Functions as an Injection Nozzle Leak Alarm + Display and Control Unit and can be connected to Multi-Zone Manifold Units for Hot Runner Leak Detection.



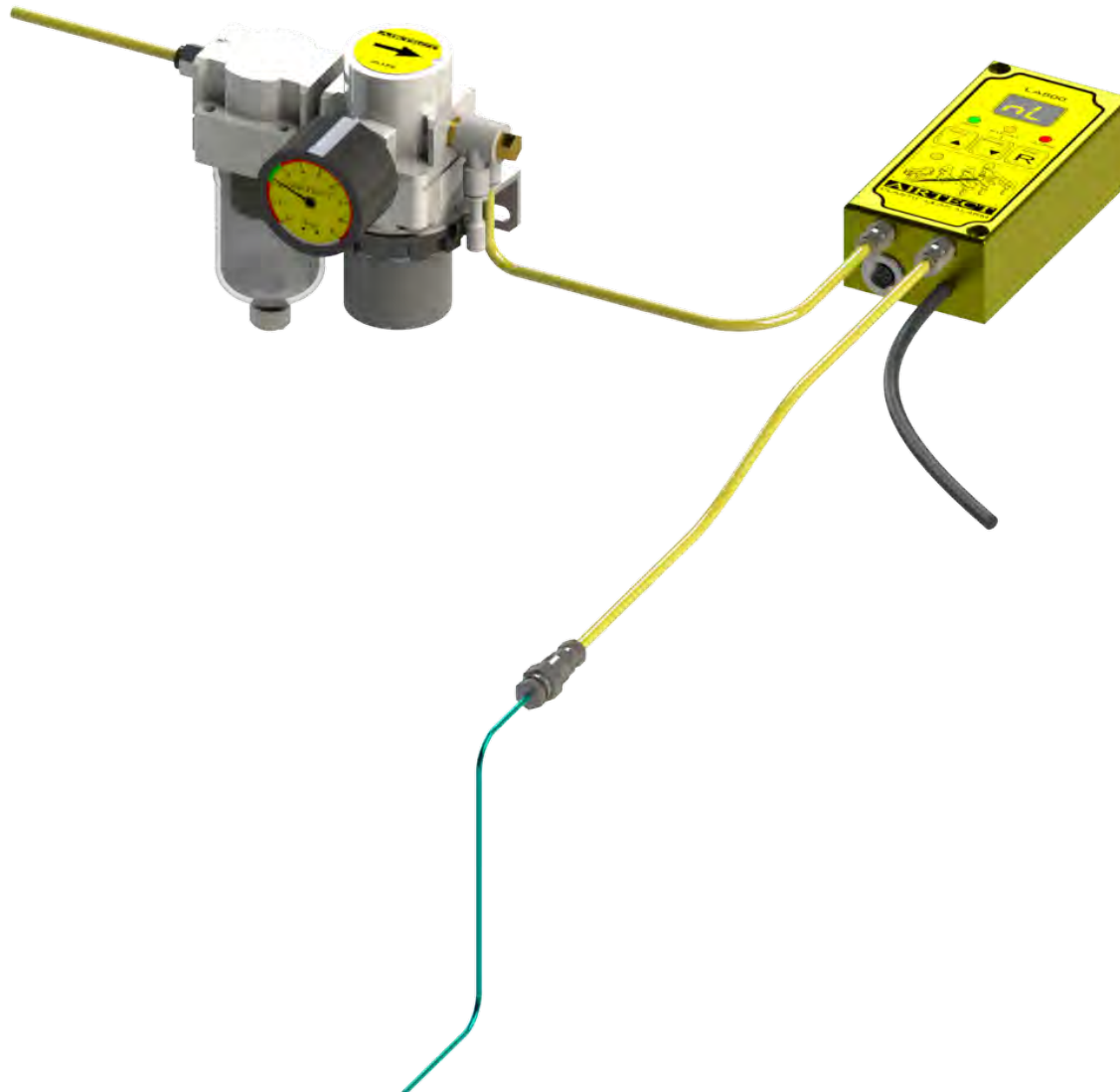
INJECTION NOZZLE PLASTIC LEAK ALARM (AND CONTROL UNIT FOR LA508/516 MANIFOLD)

Kit Includes:

- LM2050 with Clear Text LCD display with programmable operational settings
- AR-20GF Air Pressure Regulator with Pressure Gauge, Air Filter and Fittings
- 3 Meters PU Tube
- 0.5 Metres 2.5mm Silicone Rubber Tube
- 3 Meters 2mm Stainless Steel Sensor Tube
- Installation/Operation Manual
- 3 Meter Electrical Power/Interlock Cable

LA500 INSTALLATION (for nozzle only leak detection)

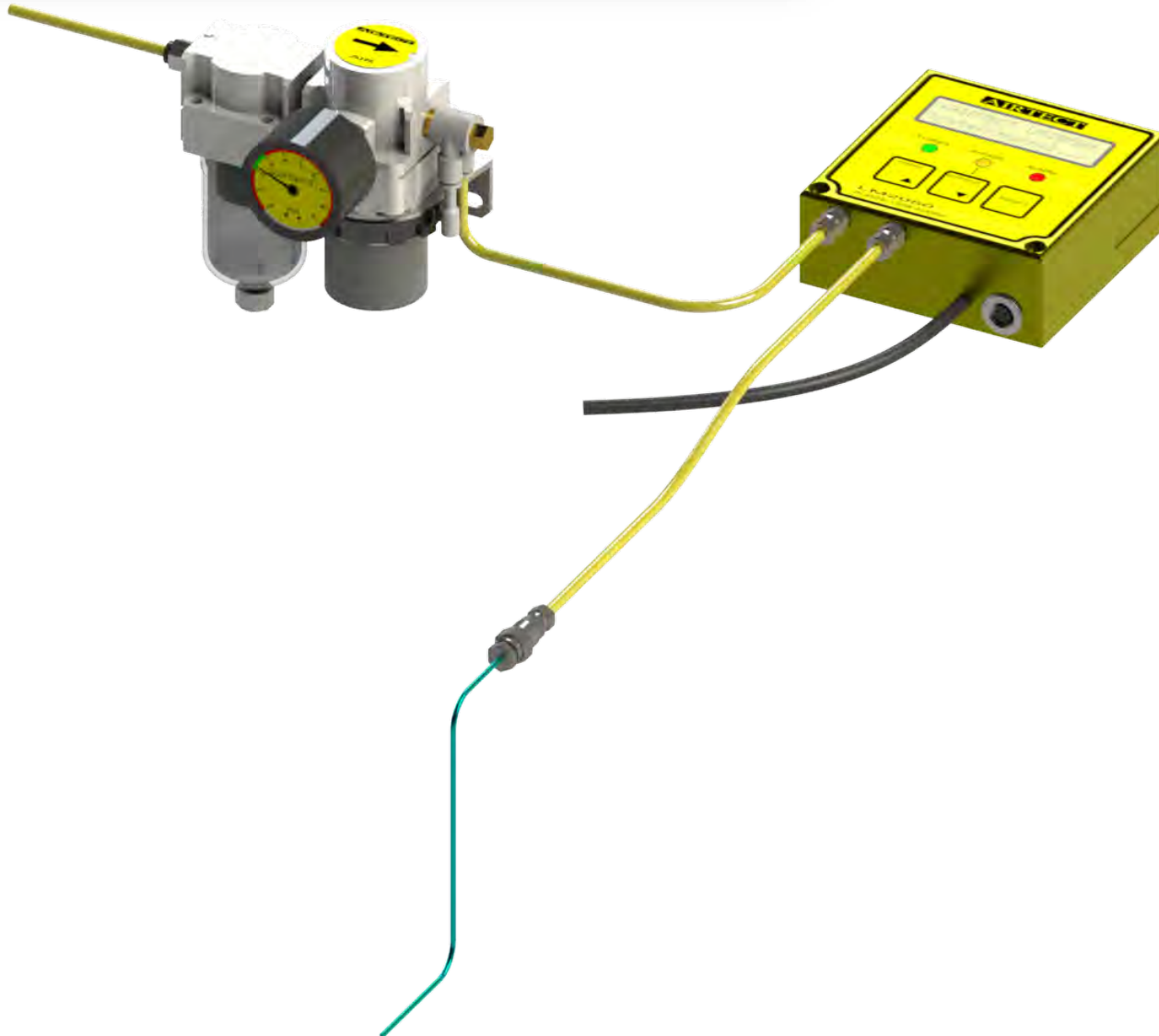
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LM2050 INSTALLATION (for nozzle only leak detection)

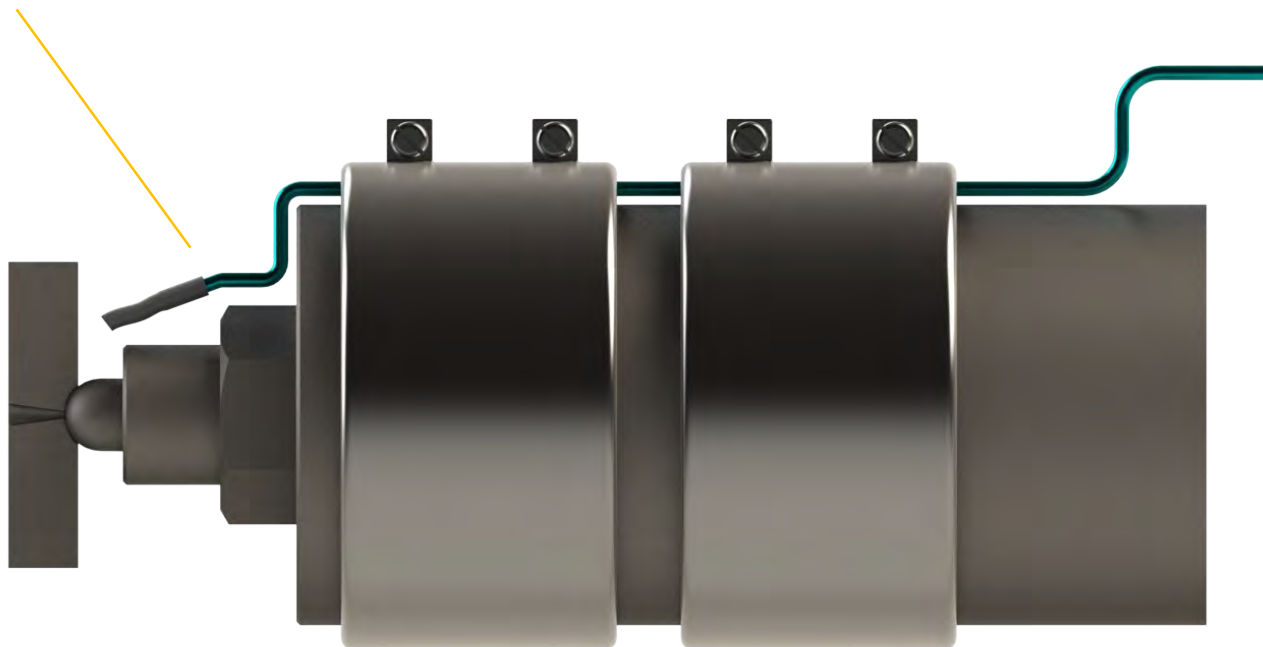
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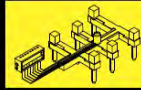




FULL CUTTING RECOMMENDATIONS SHOWN LATER

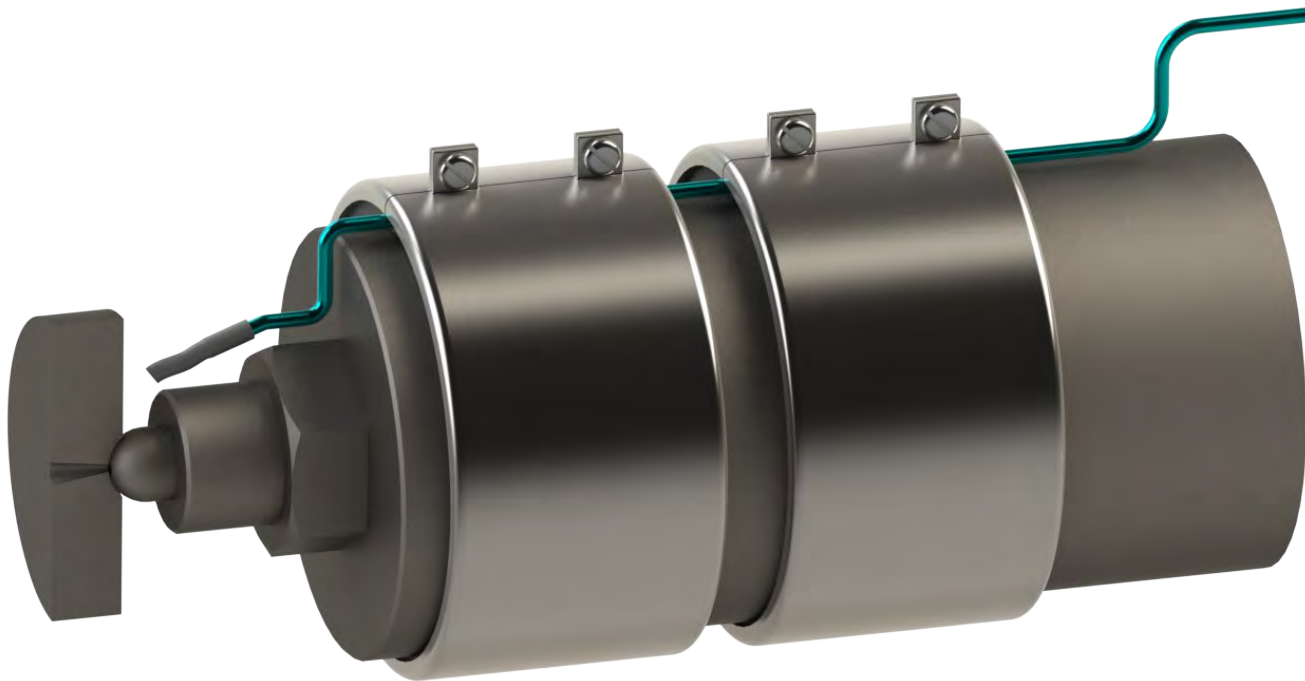
1. File Sensor Tube Flat
2. Ensure 1mm Clear Hole in Centre
3. Put on Silicone Rubber Sleeve
(leave 15-20mm overhang and keep away from direct contact with heater band or nozzle, max 270°C)
4. Place close to nozzle...customer can decide depending on how soon an indication they need.
5. Fix the Sensor Tube securely!

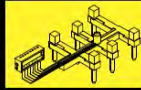




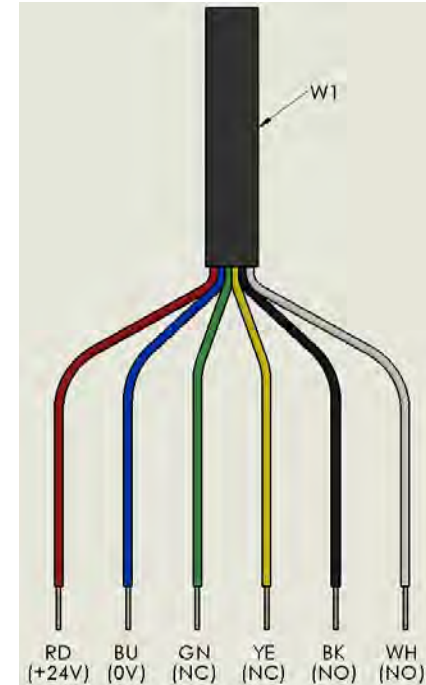
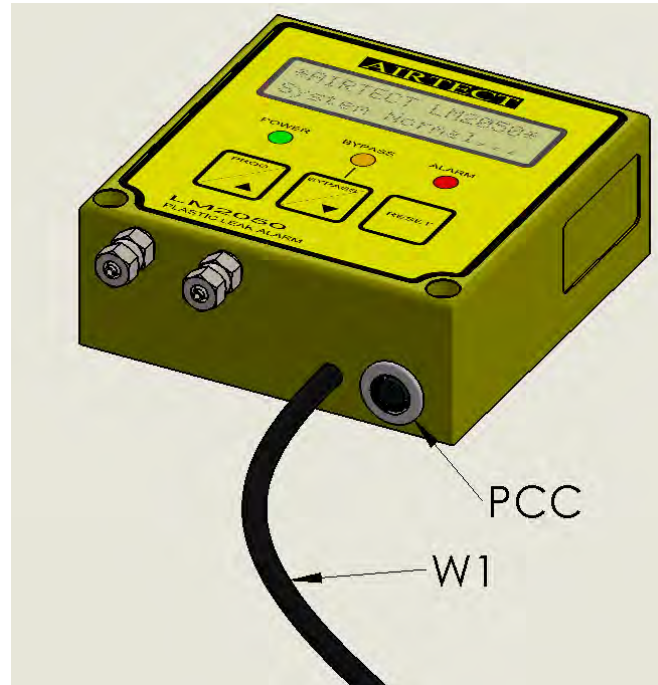
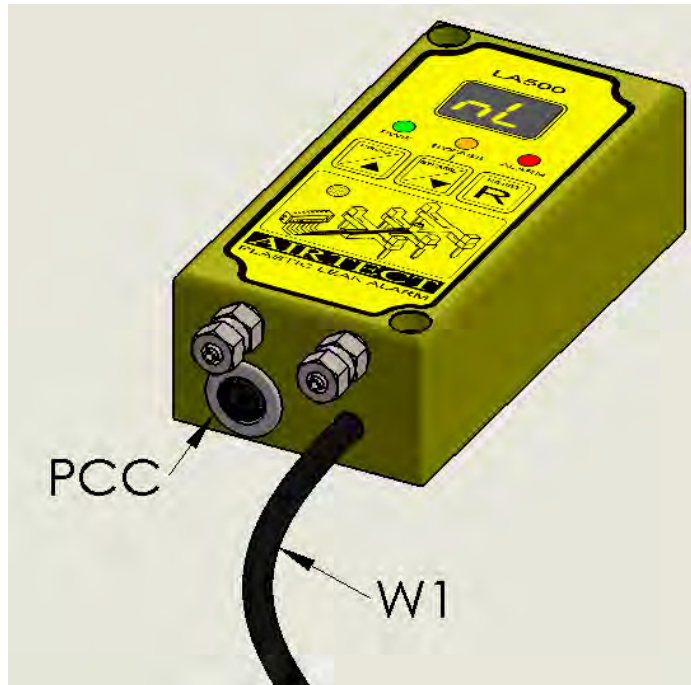
LM2050 and LA500 NOZZLE SENSOR TUBE INSTALLATION

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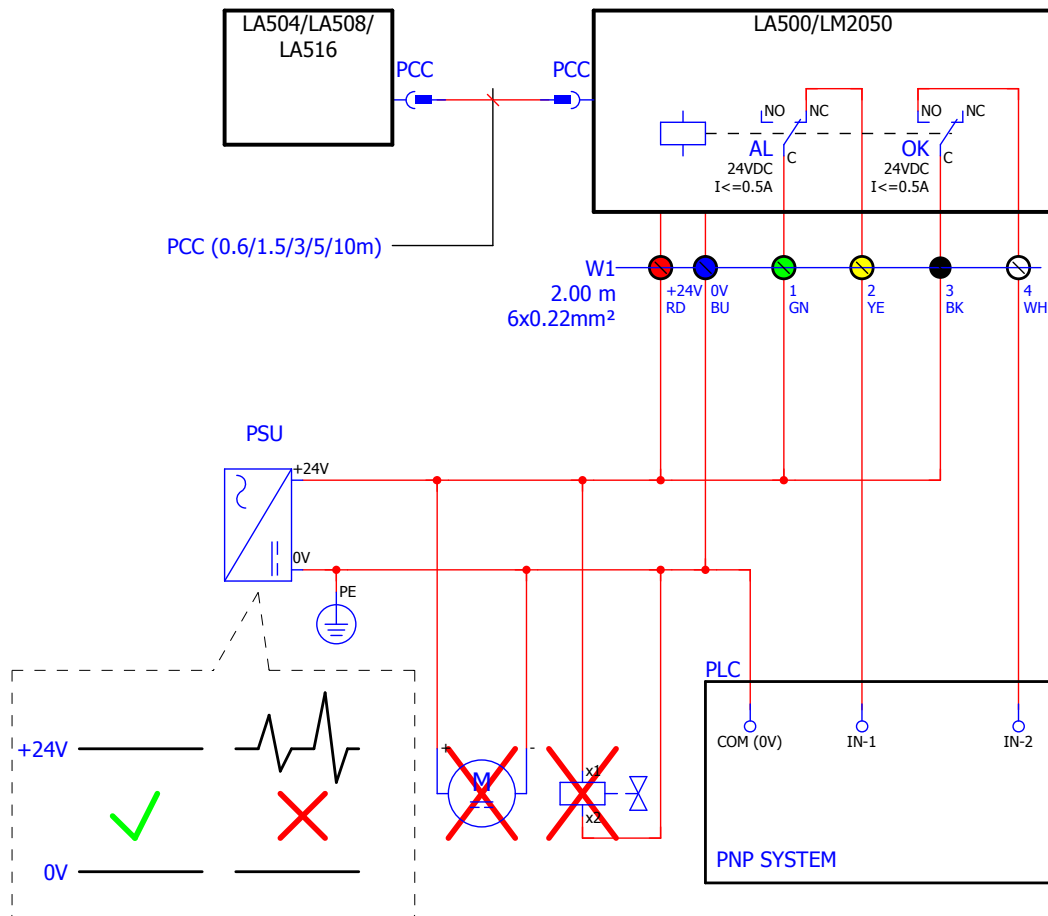




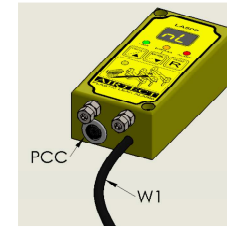
(single nozzle and multi-zone)



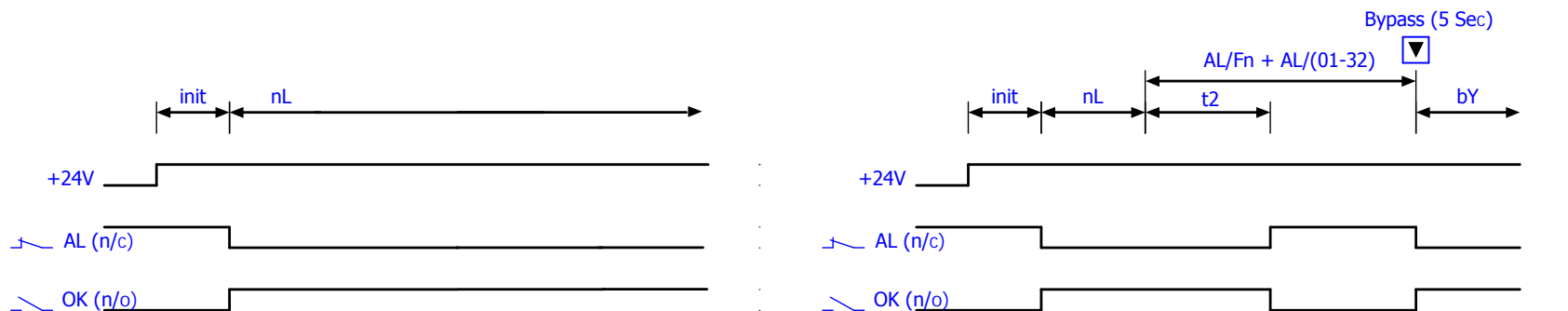
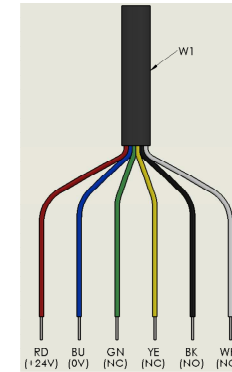
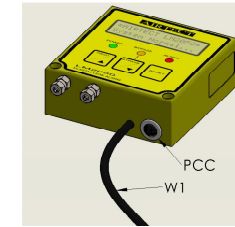
PNP SYSTEM

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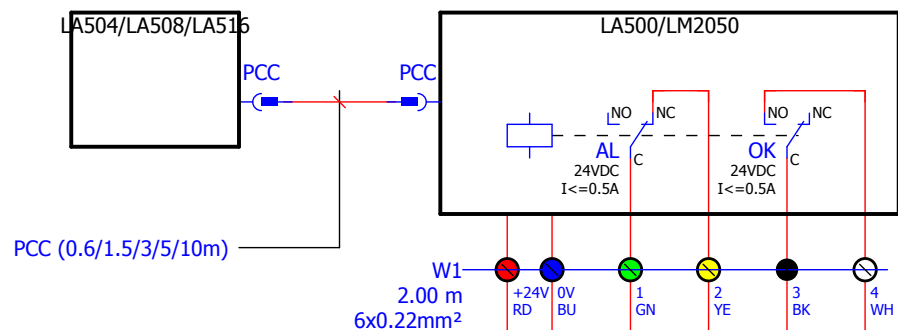
LA500



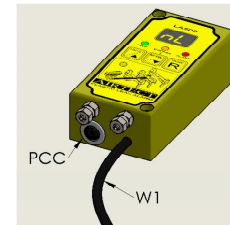
LM2050



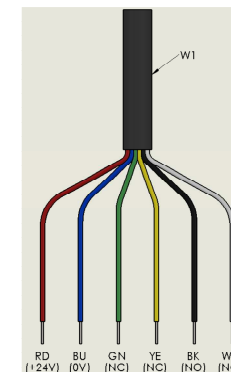
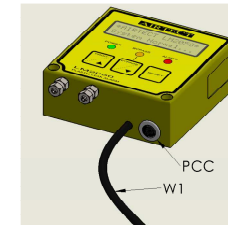
NPN SYSTEM

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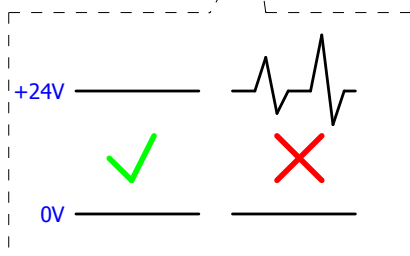
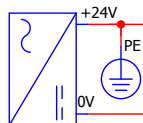
LA500



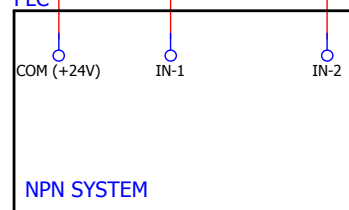
LM2050



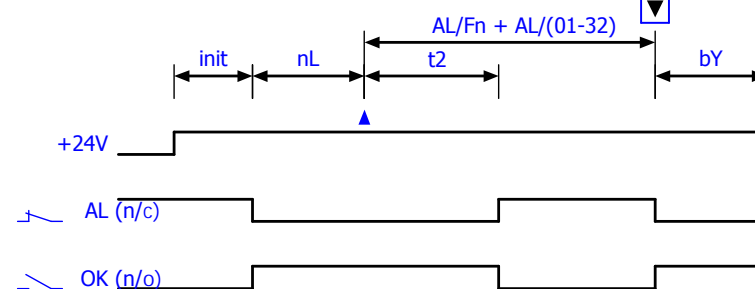
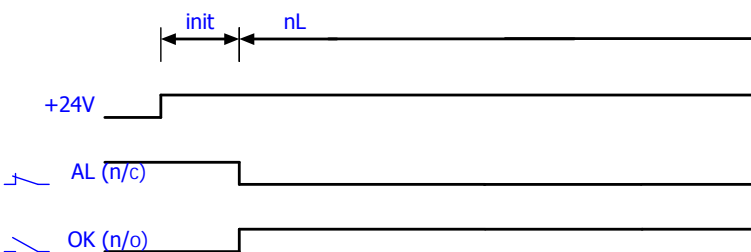
PSU

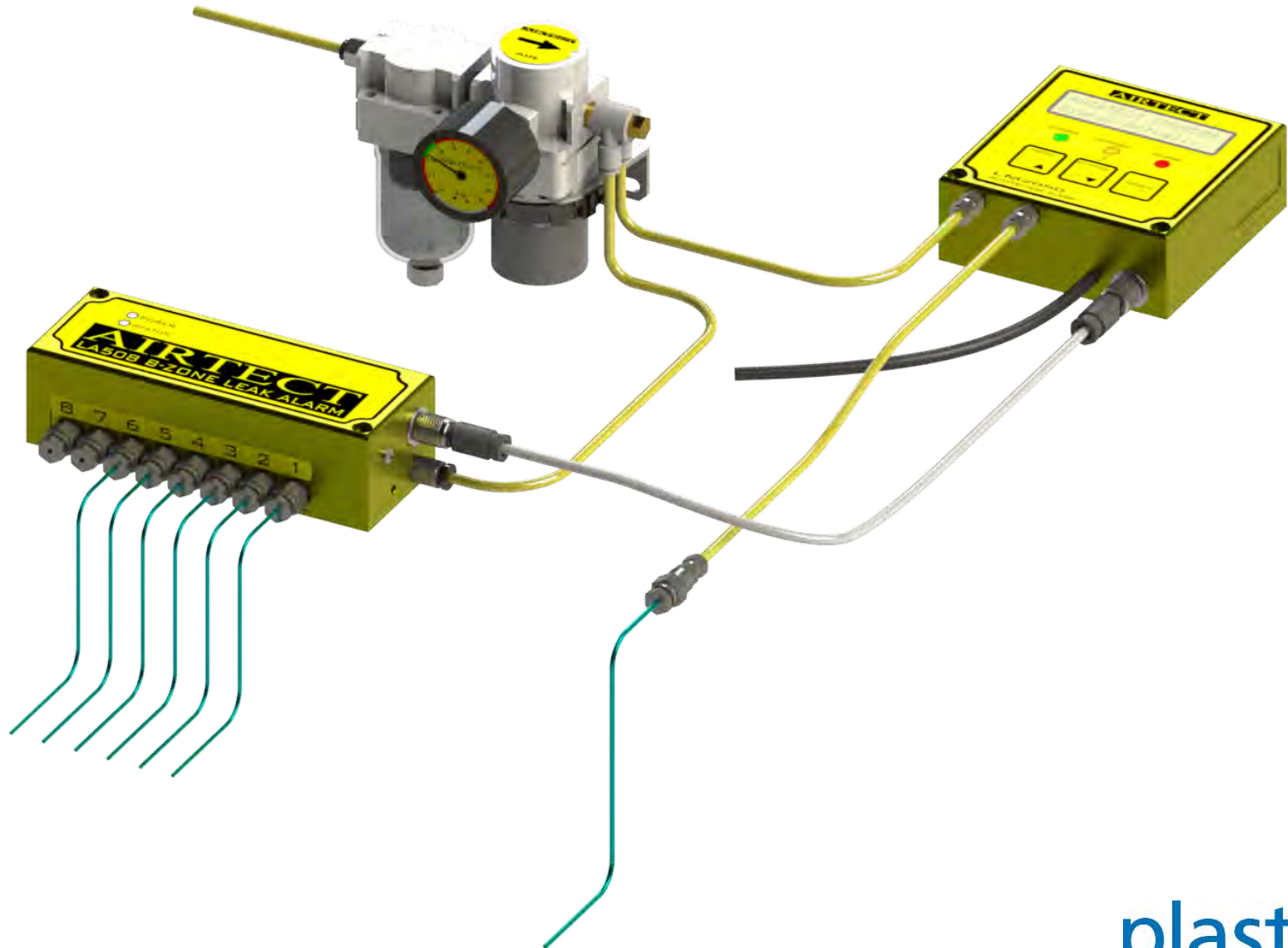


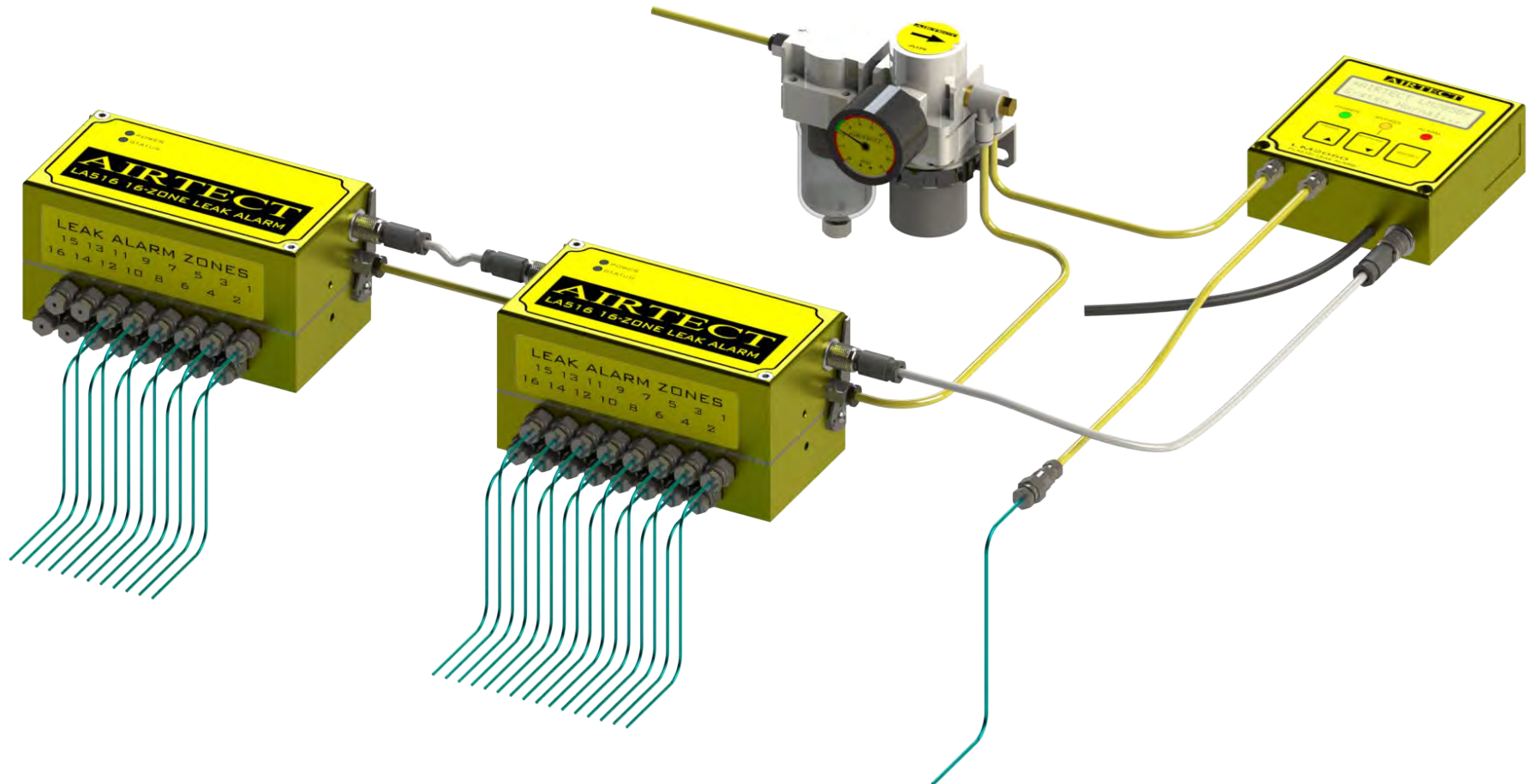
PLC



Bypass (5S)









LM2050 PRACTICAL INSTALLATION

(single nozzle and multi-zone leak
detection)

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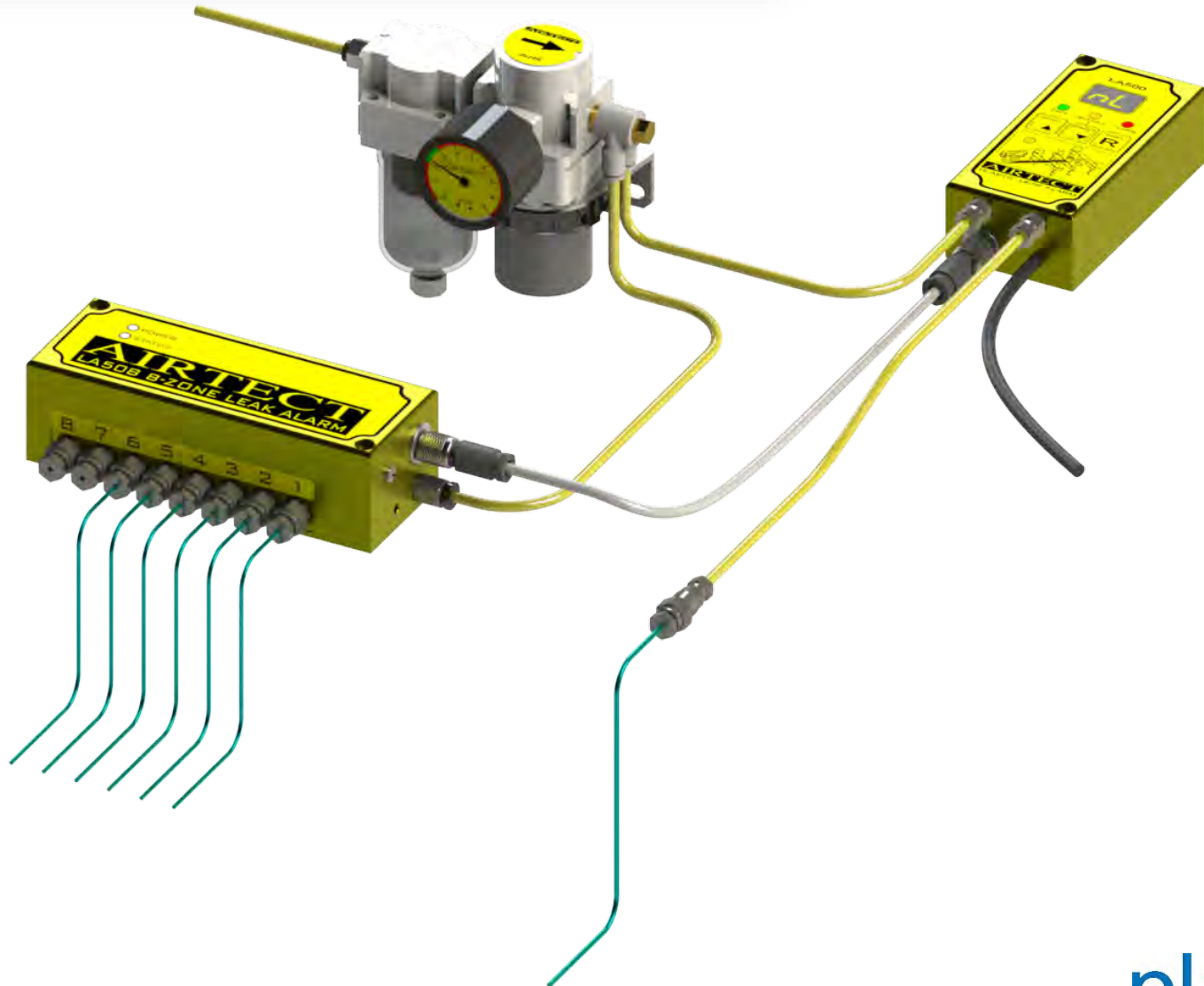


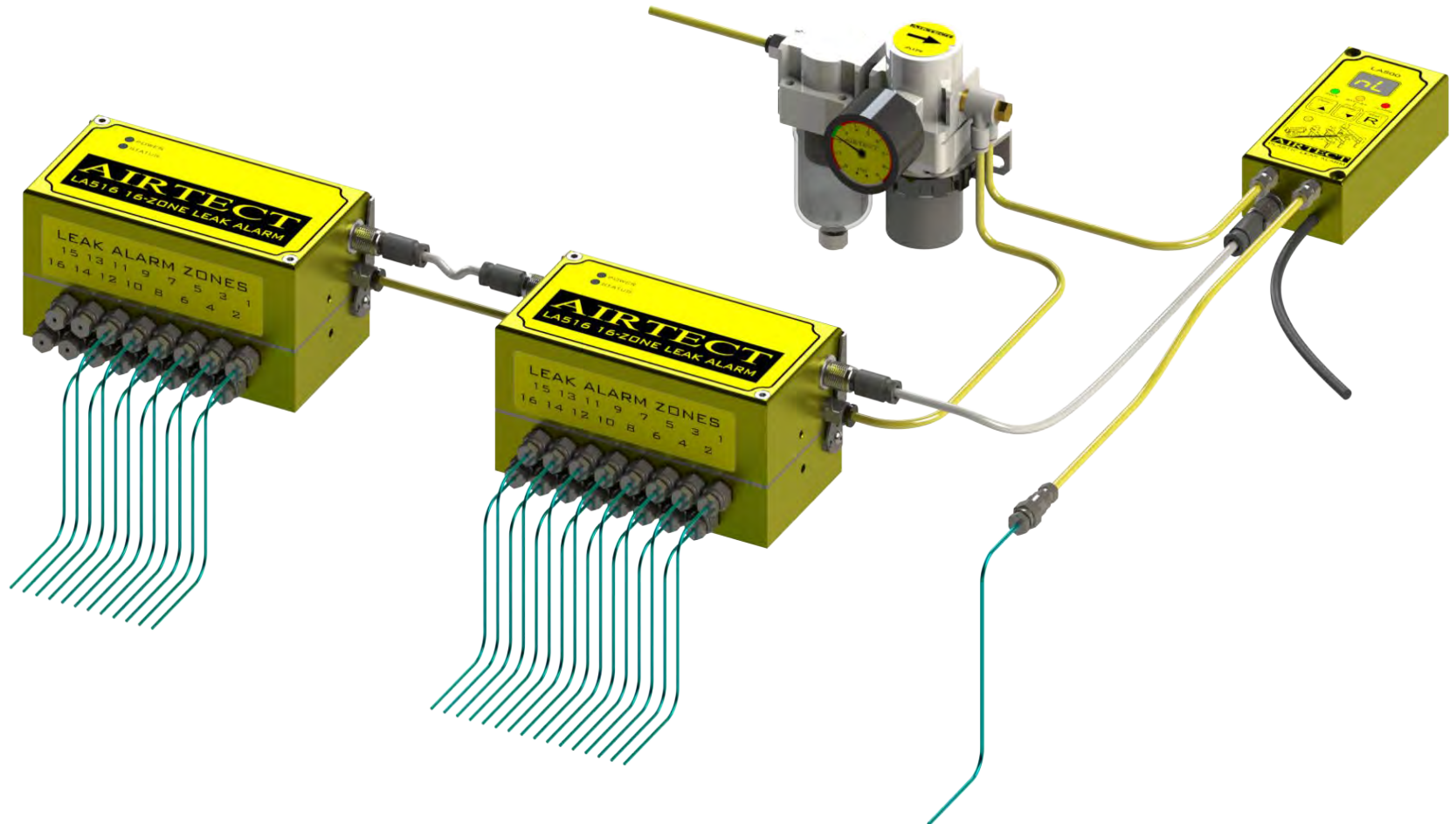


LA500 INSTALLATION

(single nozzle and 8-zone leak detection)

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INSTALLATION GUIDELINES:

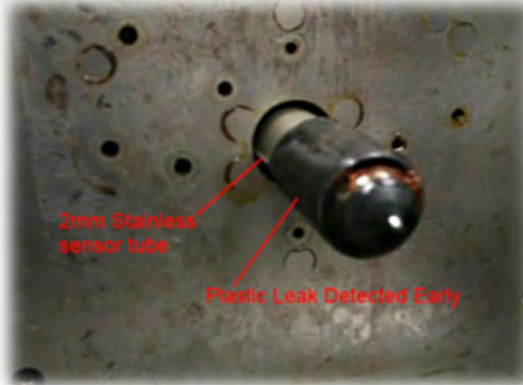
1. The DC Power Source must be interference free. This means no Electromagnetic Interference (EMI) caused by solenoids and servomotors etc.
2. The internal interlock relay contacts have a capacity to switch loads of 24Vdc at a maximum current of 0.5A.
3. Ensure neat workmanship and run the wiring and plastic tubing within the machine enclosure where possible.
4. Ensure that both ends of all sensor tubes are cut neatly so as to provide a clear inner sensor tube diameter of 0.8mm (for 1.6mm tube) and 1mm (for 2mm tube).
5. When using expansion manifolds (LA504, LA508 etc) ensure the LA500 or LM2050 has been programmed to accept the manifold/s and that it/they are connected, otherwise a communication alarm will be displayed and vice-versa if the LA500 or LM2050 has not been programmed and a manifold is connected, a communication alarm will be displayed.
6. Electrical power should only be switched on AFTER the sensor tube installation is complete and the air supply is energised to allow the 'self teaching' function to work.
7. When using Modular systems, the manifolds must be mounted on the manifold base before applying electrical power as all mould leak sensor installations will be somewhat different.

MANIFOLD LED INDICATIONS

-  POWER LED SHOULD BE CONTINUOUSLY LIT (NORMAL)
-  STATUS LED SHOULD FLASH EVERY 3-4 SECONDS (NORMAL)
-  STATUS LED WILL FLASH QUICKLY FOR COMMUNICATION 'DATA ERROR' WARNING
-  STATUS LED WILL FLASH RED / GREEN QUICKLY FOR 'INTERNAL SENSOR ERROR' WARNING



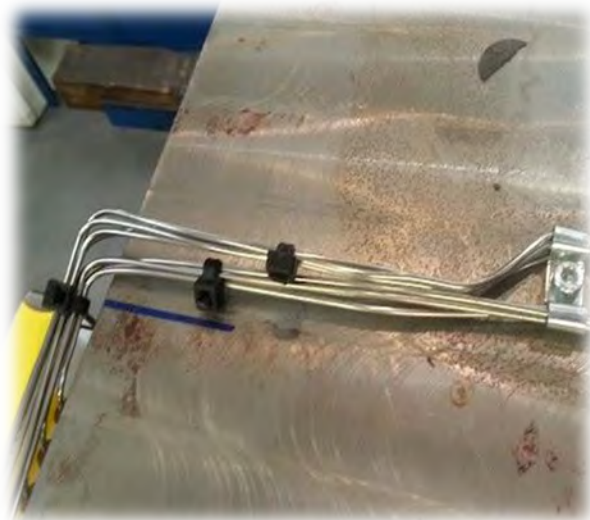
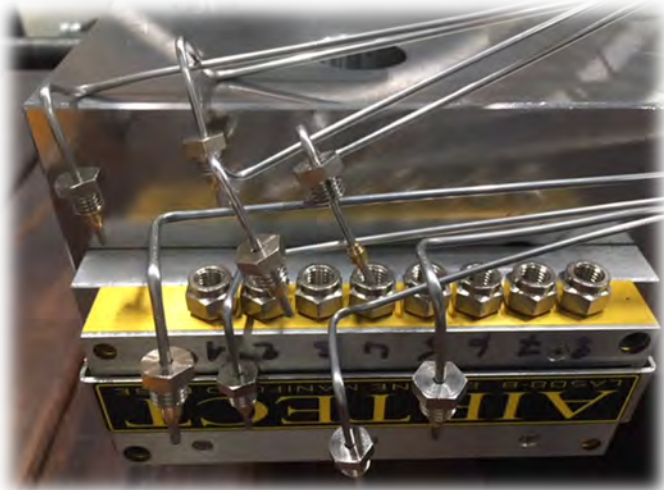
16-CHANNEL INSTALLATION

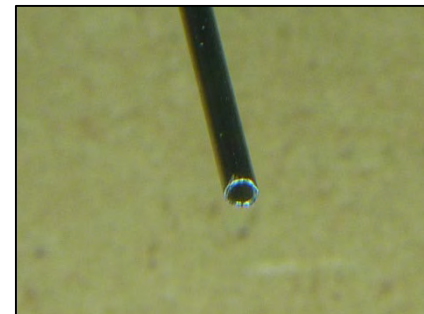
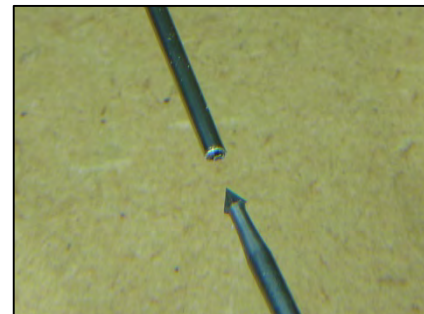
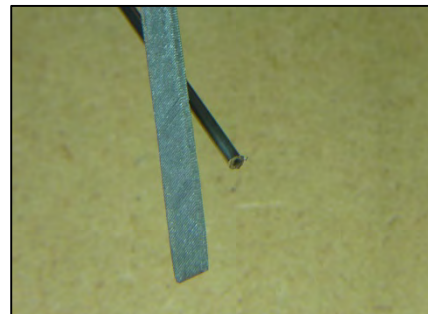
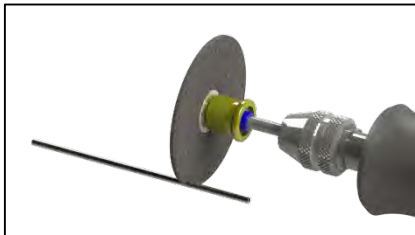
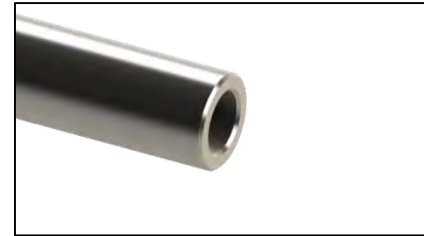
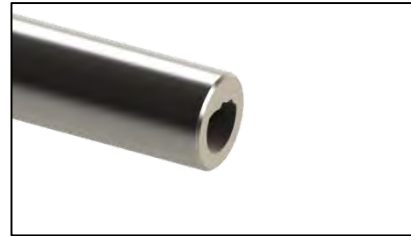
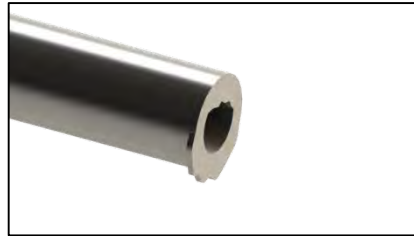
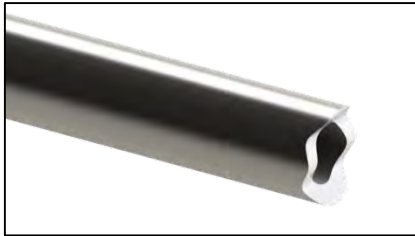


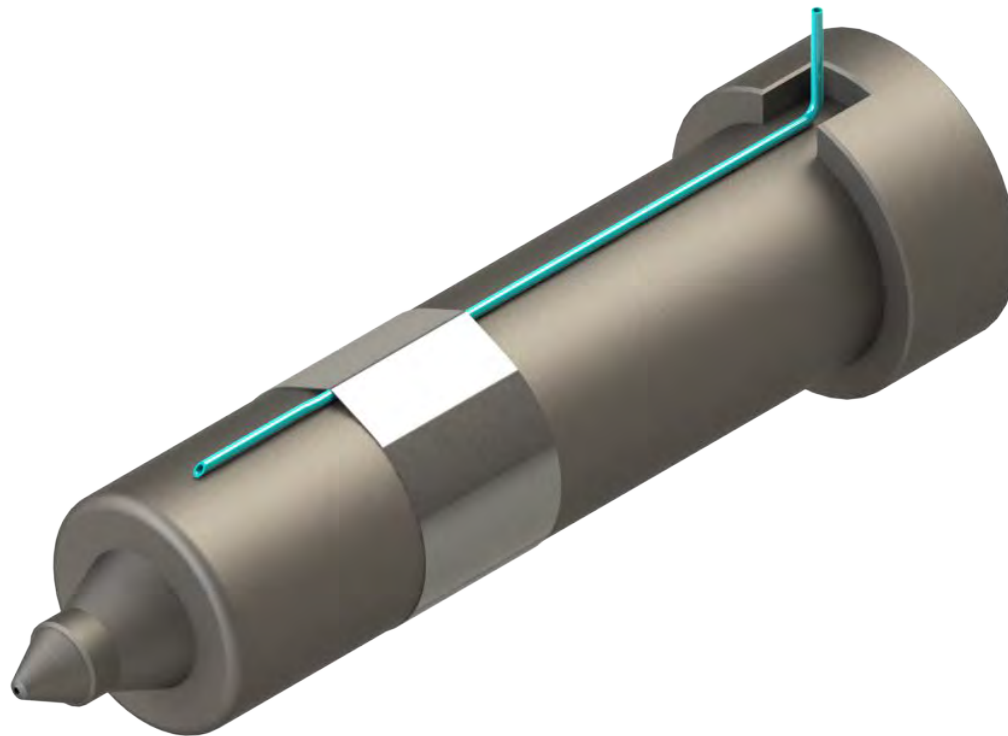


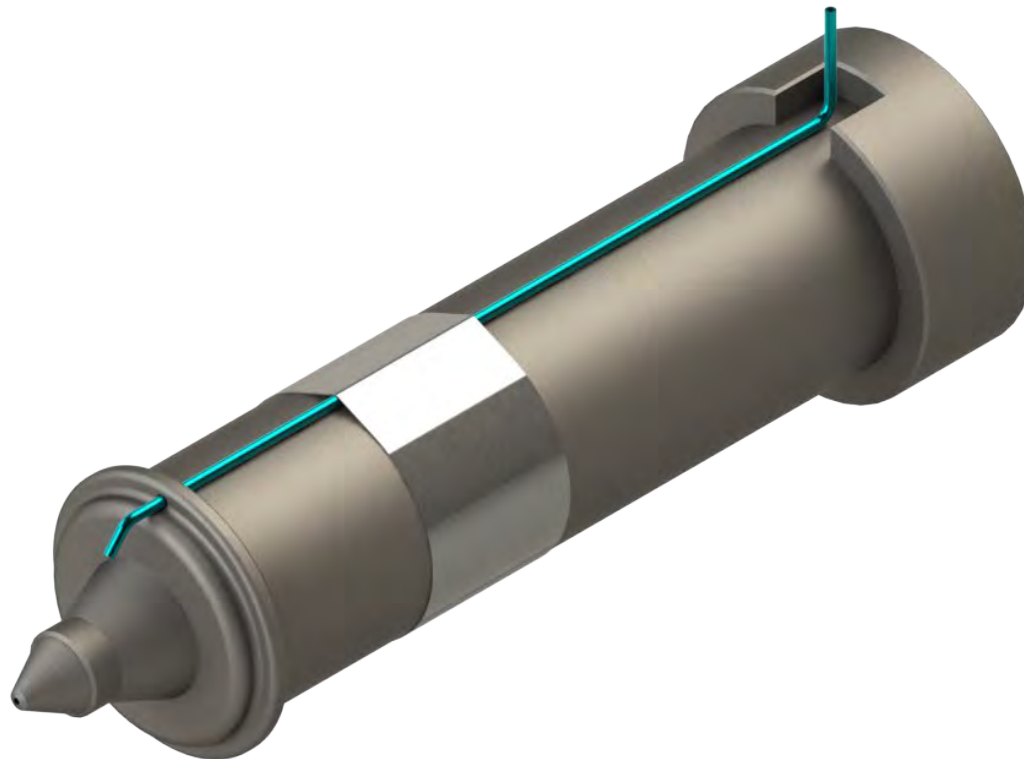
SENSOR TUBE INSTALLATION PHOTOS

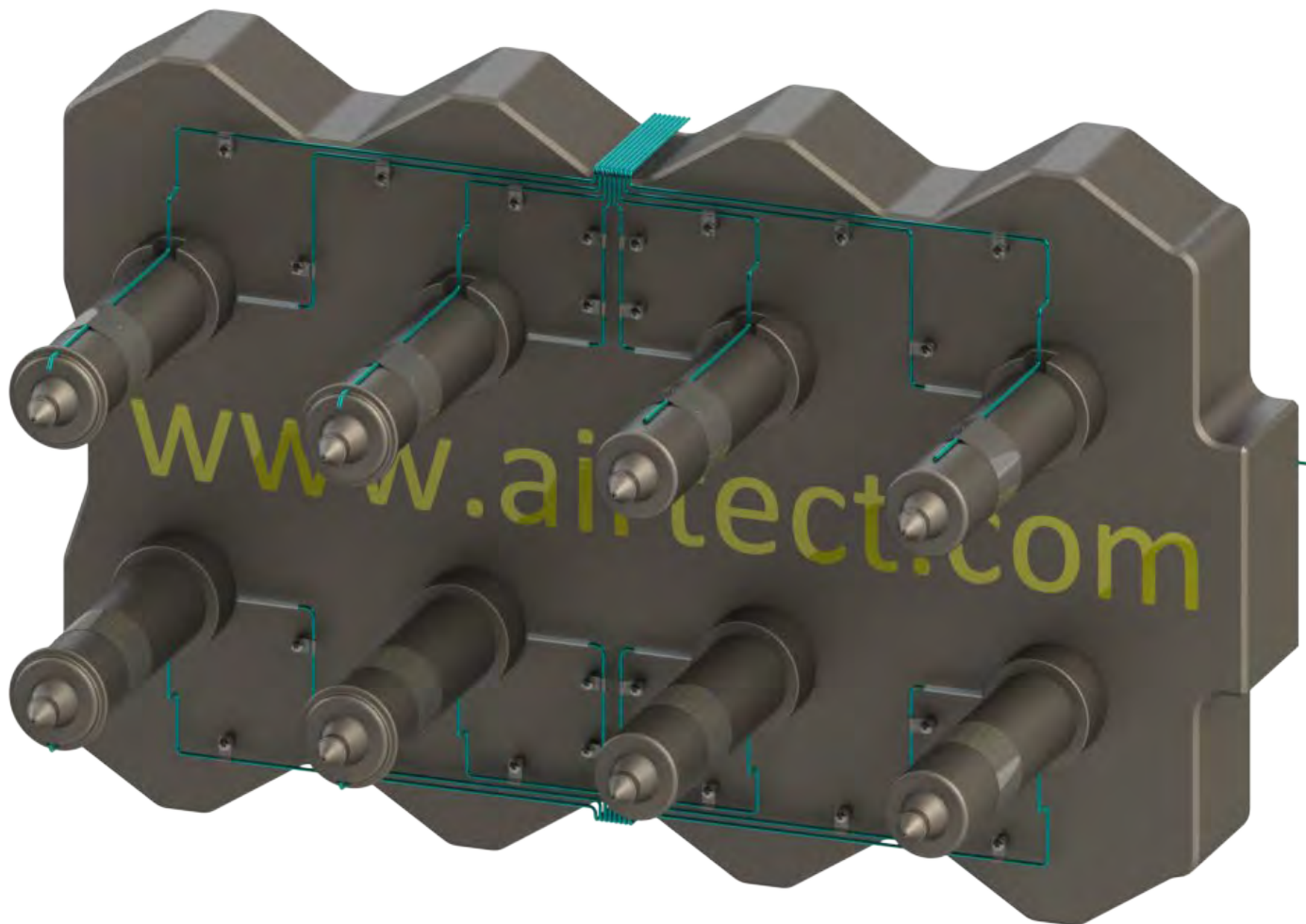
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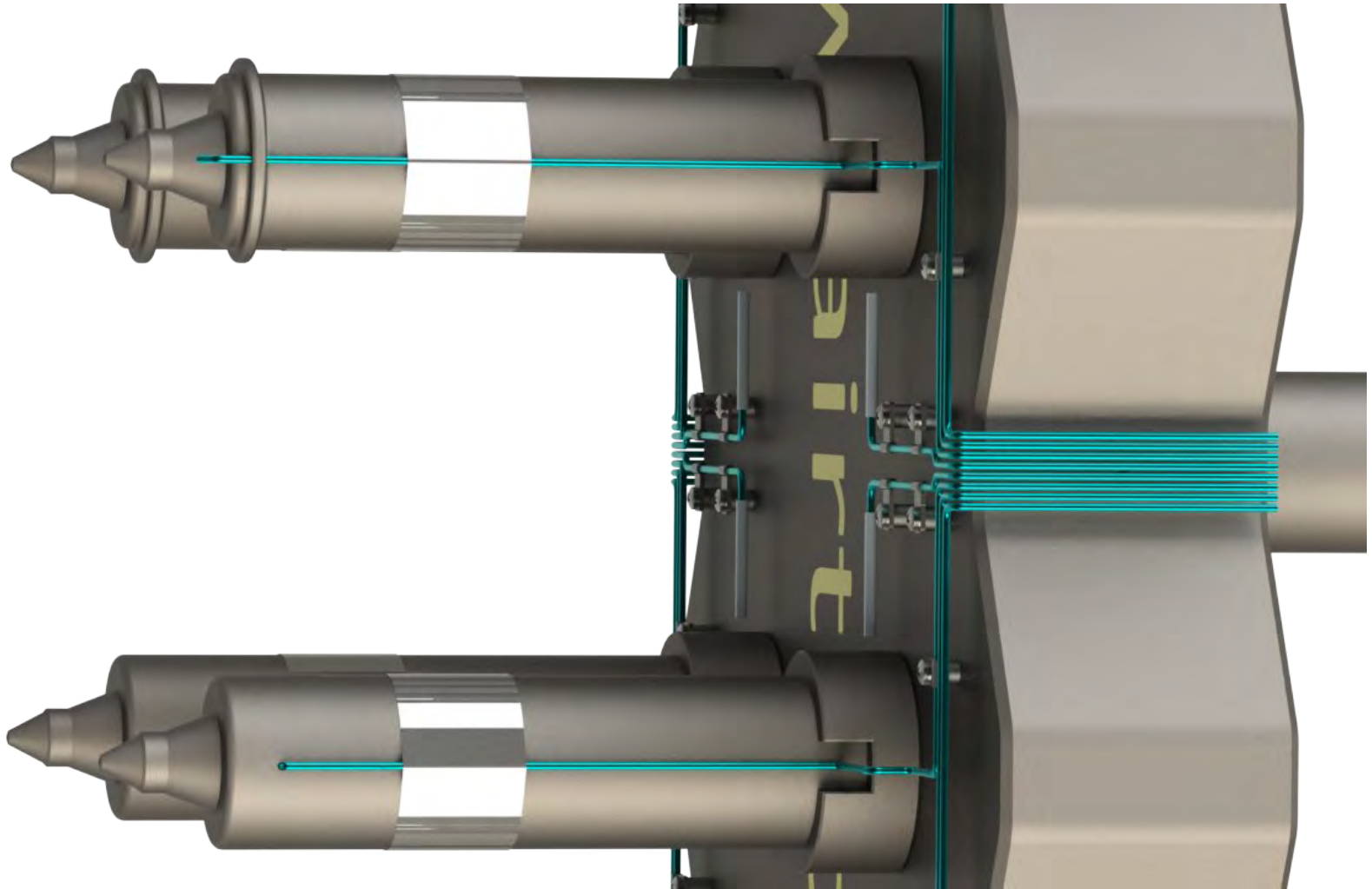


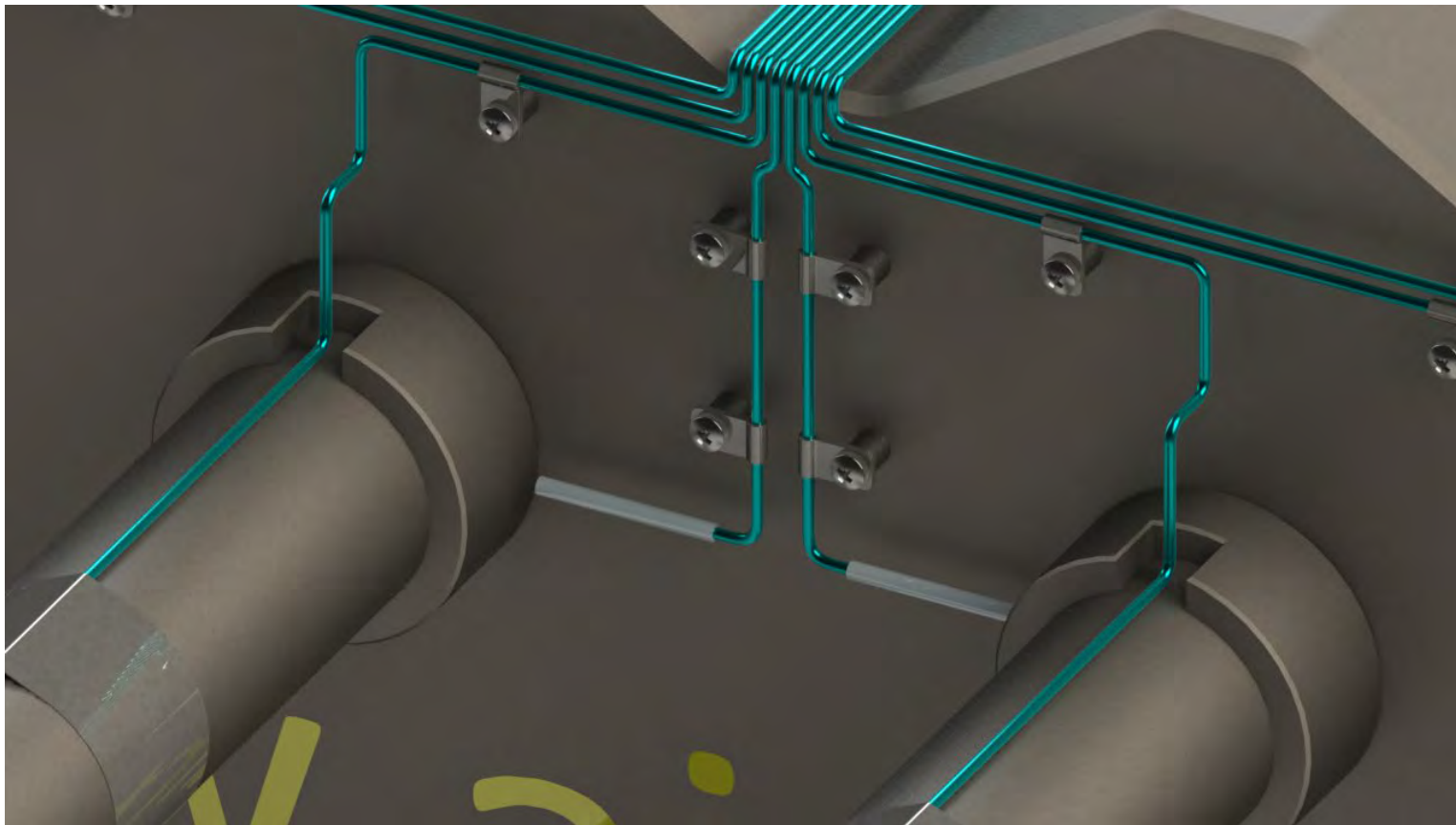


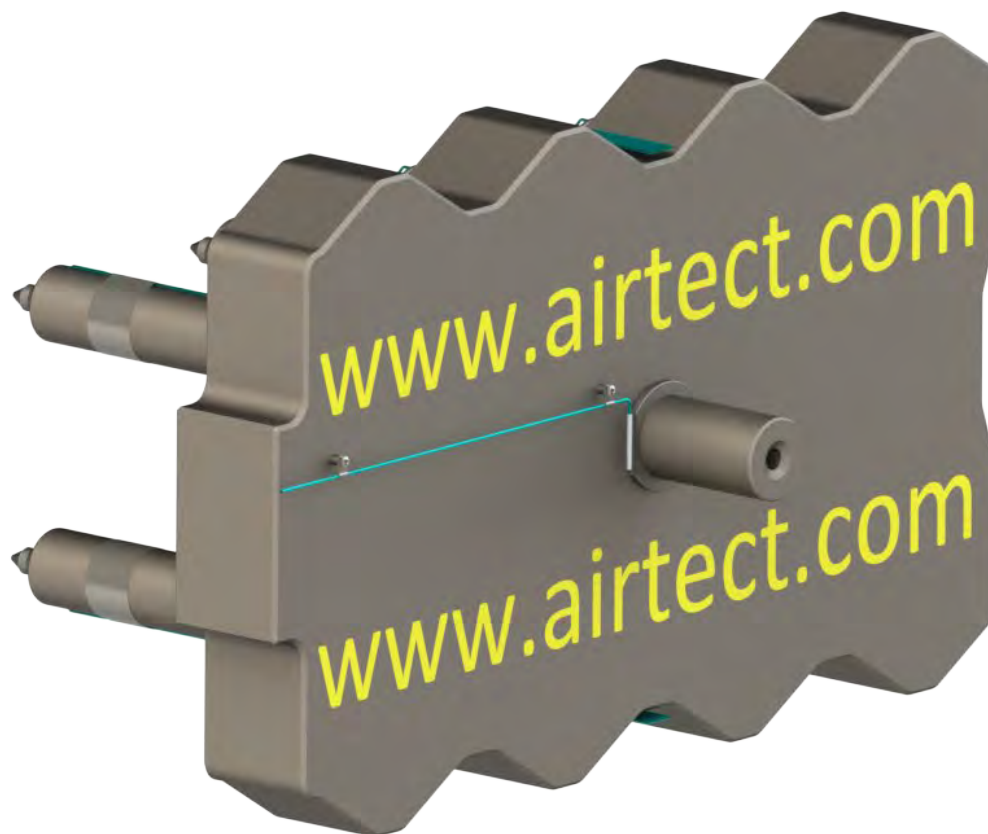


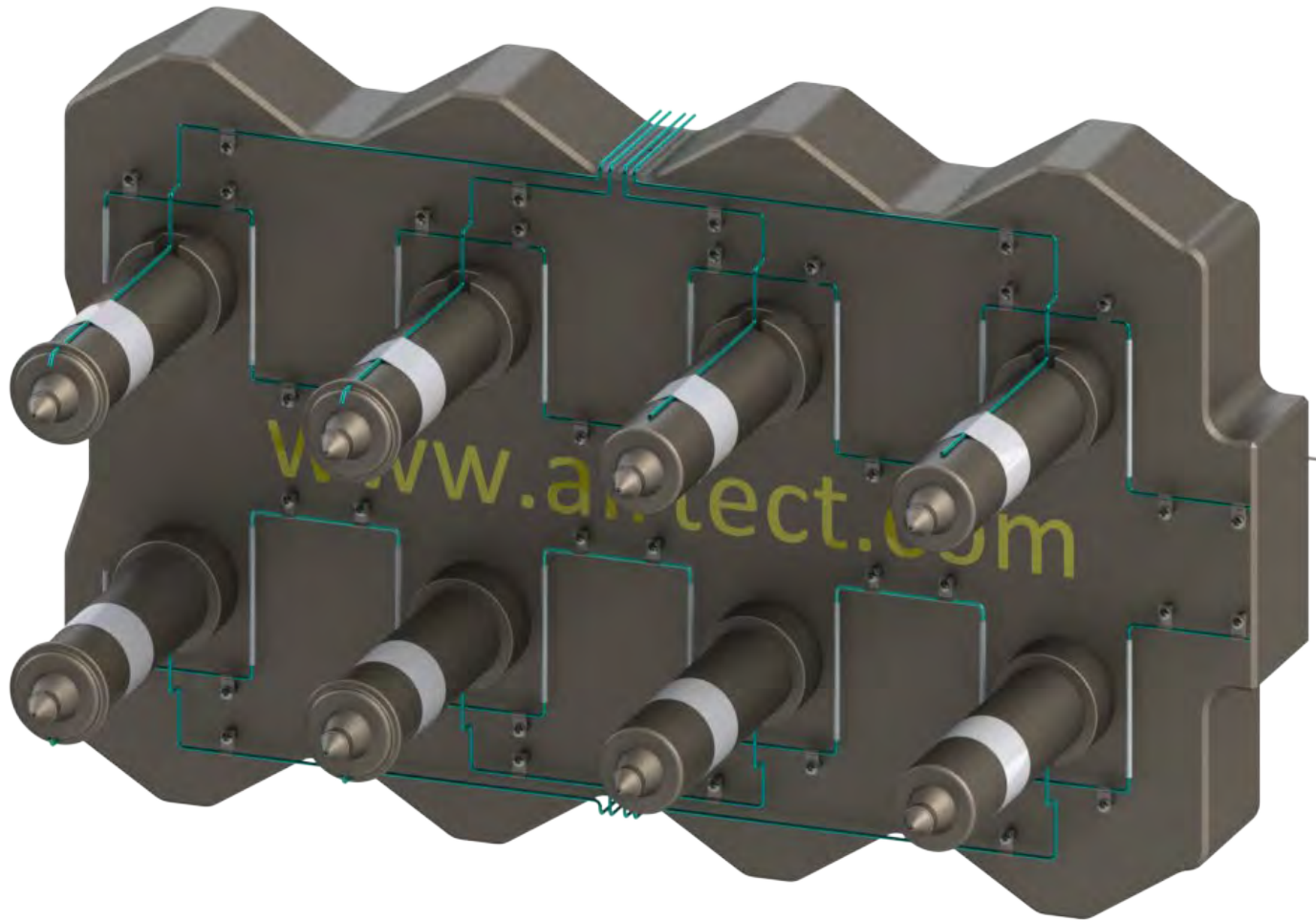
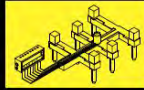


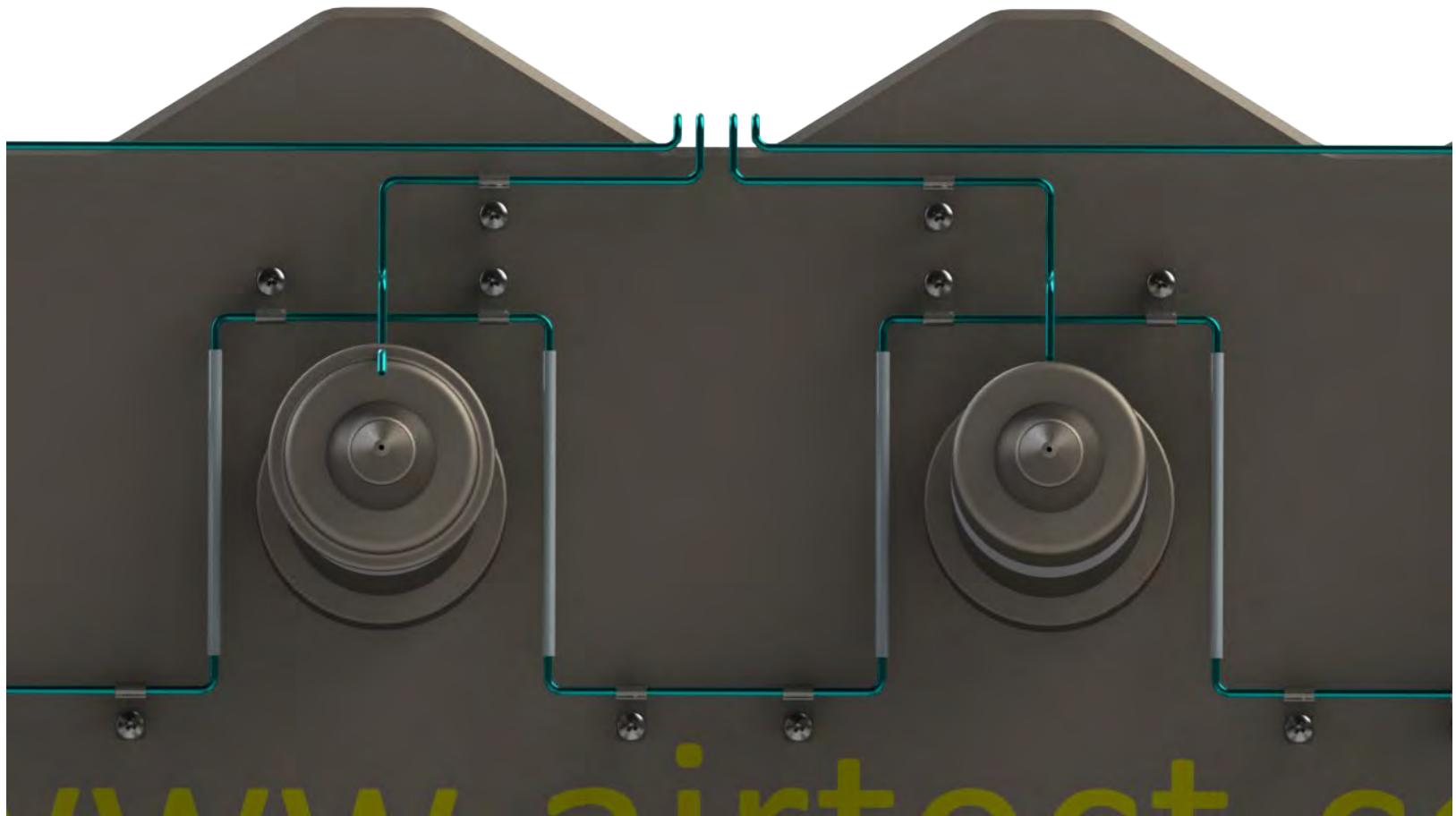


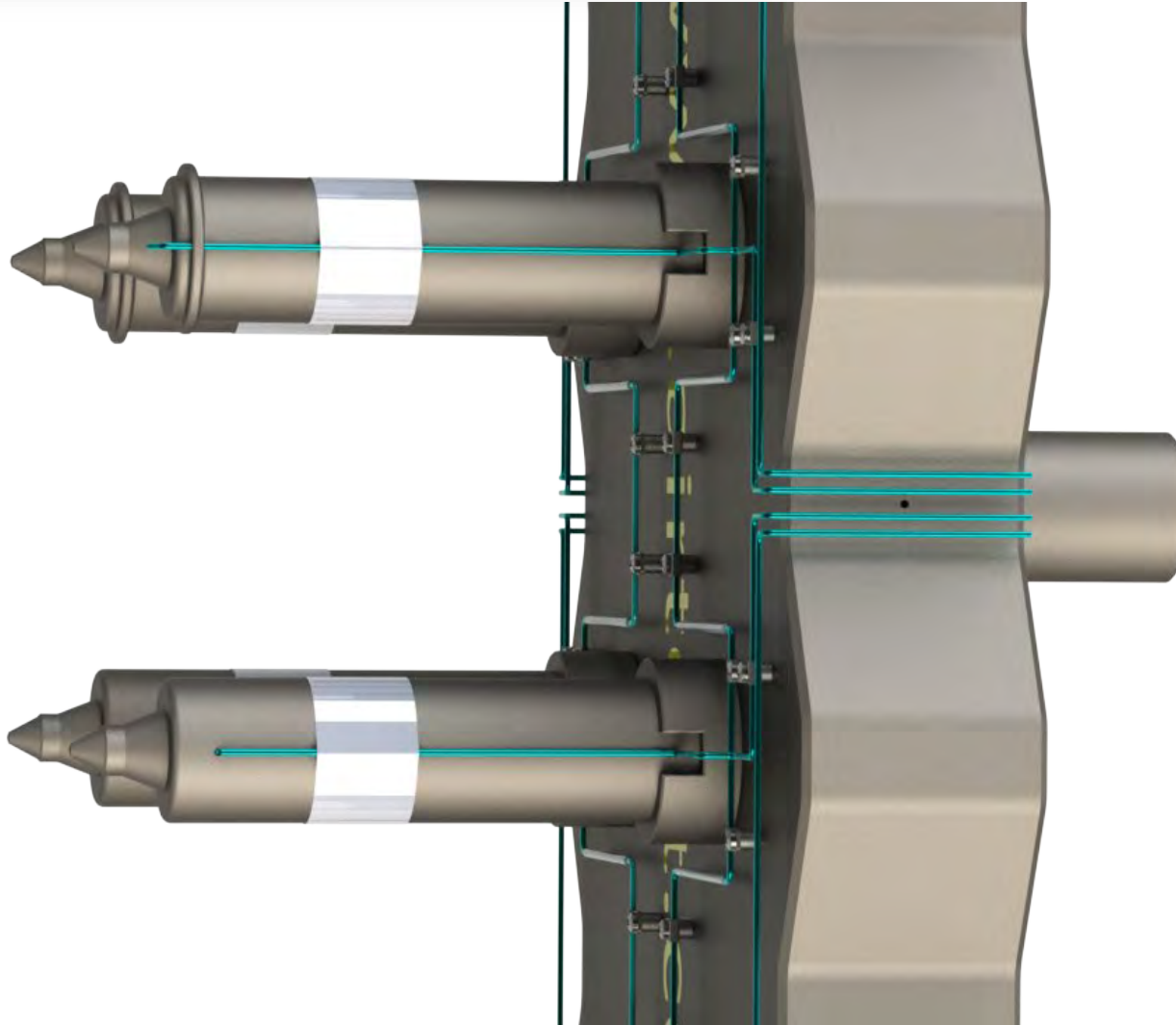














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HOT RUNNER LEAKS EARLY!!**

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**MULTI-ZONE LEAK DETECTION SYSTEMS ARE AVAILABLE WITH OR
WITHOUT PROGRAMMABLE CONTROL**

PROGRAMMABLE CONTROL ADVANTAGES (USING LA500 or LM2050)

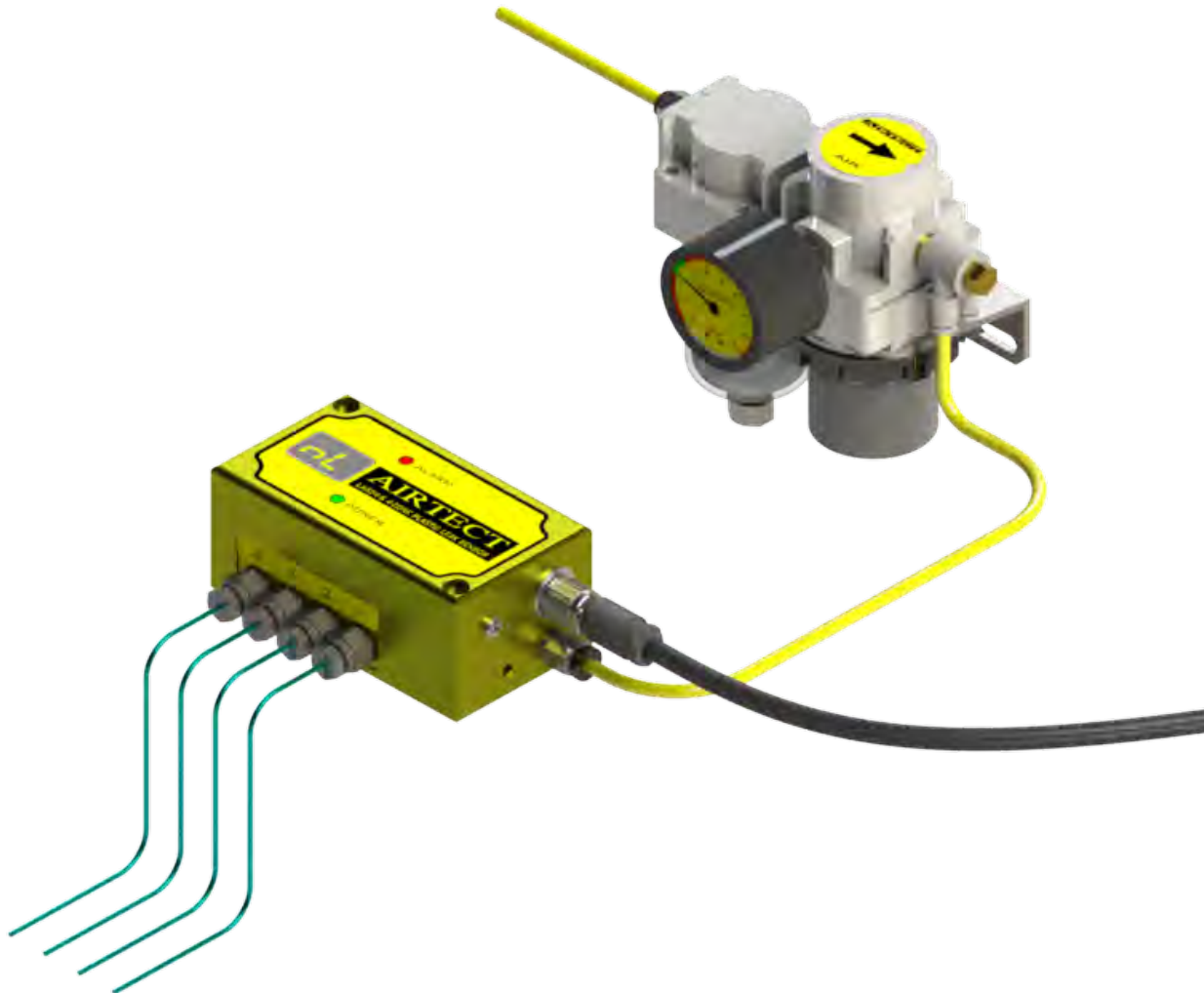
- PROGRAMMABLE FUNCTIONS INCLUDE LEAK REPORTING AND INTERLOCK RELAY DELAY TIMERS, MANIFOLD TEMPERATURE ETC
- MULTIPLE MANIFOLD CONNECTION SYSTEMS (DAISY CHAIN).
- PROVIDE LEAK DETECTION AT MAIN INJECTION NOZZLE

NON-PROGRAMMABLE CONTROL ADVANTAGES (STAND-ALONE MANIFOLDS)

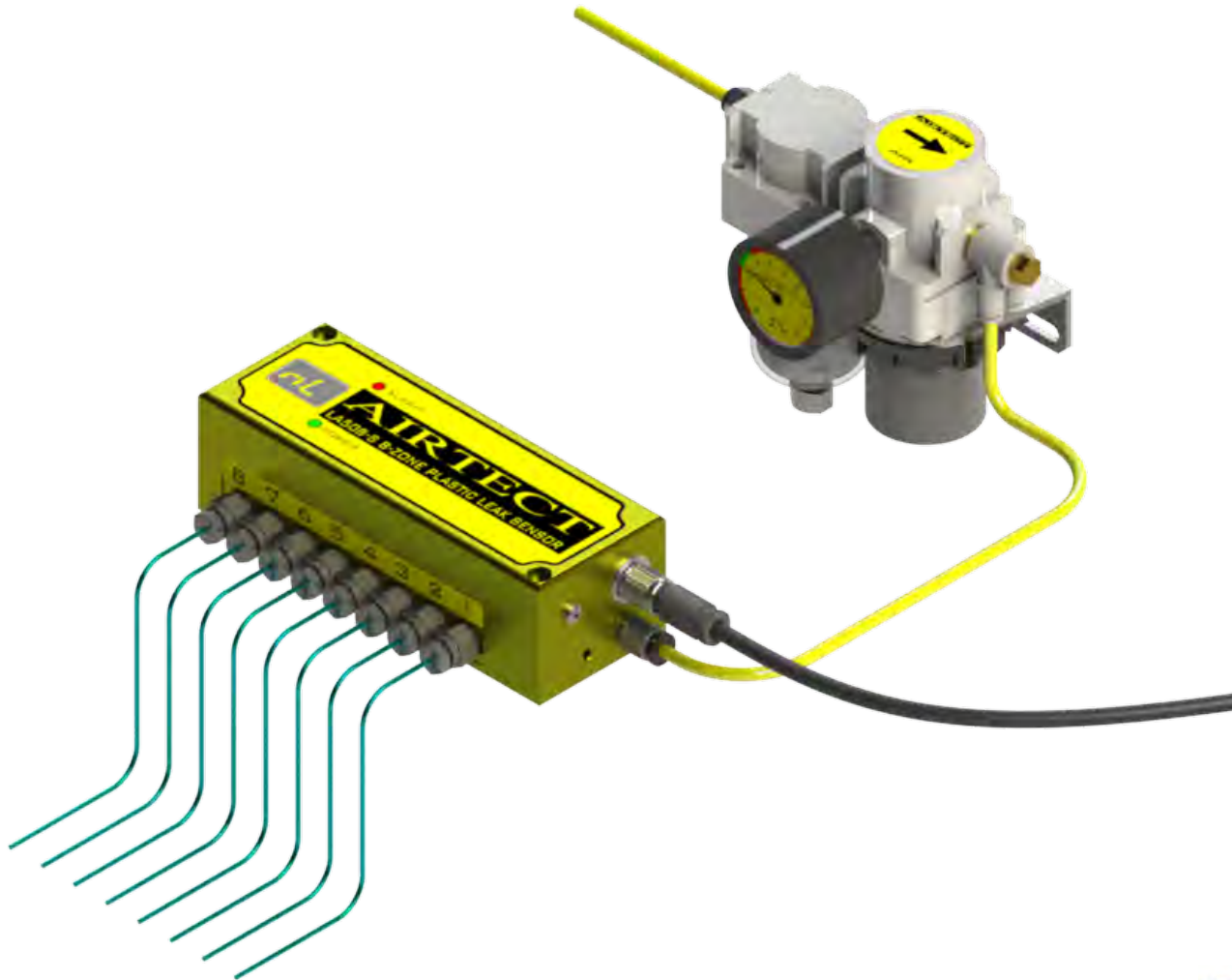
- LOW COST ALTERNATIVE
- LEAK LOCATION DISPLAYED ON MANIFOLD
- FIXED 10 SECOND INTERLOCK RELAY DELAY TIMER
- AVAILABLE IN FIXED OR MODULAR UNITS, SAME AS ABOVE.
- AUTO-RESET OF ALARMS
- SAME ELECTRICAL CONNECTIONS AS LA500/LM2050
- NO PCC CABLES

NOTE: THESE UNITS CANNOT BE EXPANDED (DAISY CHAINED)

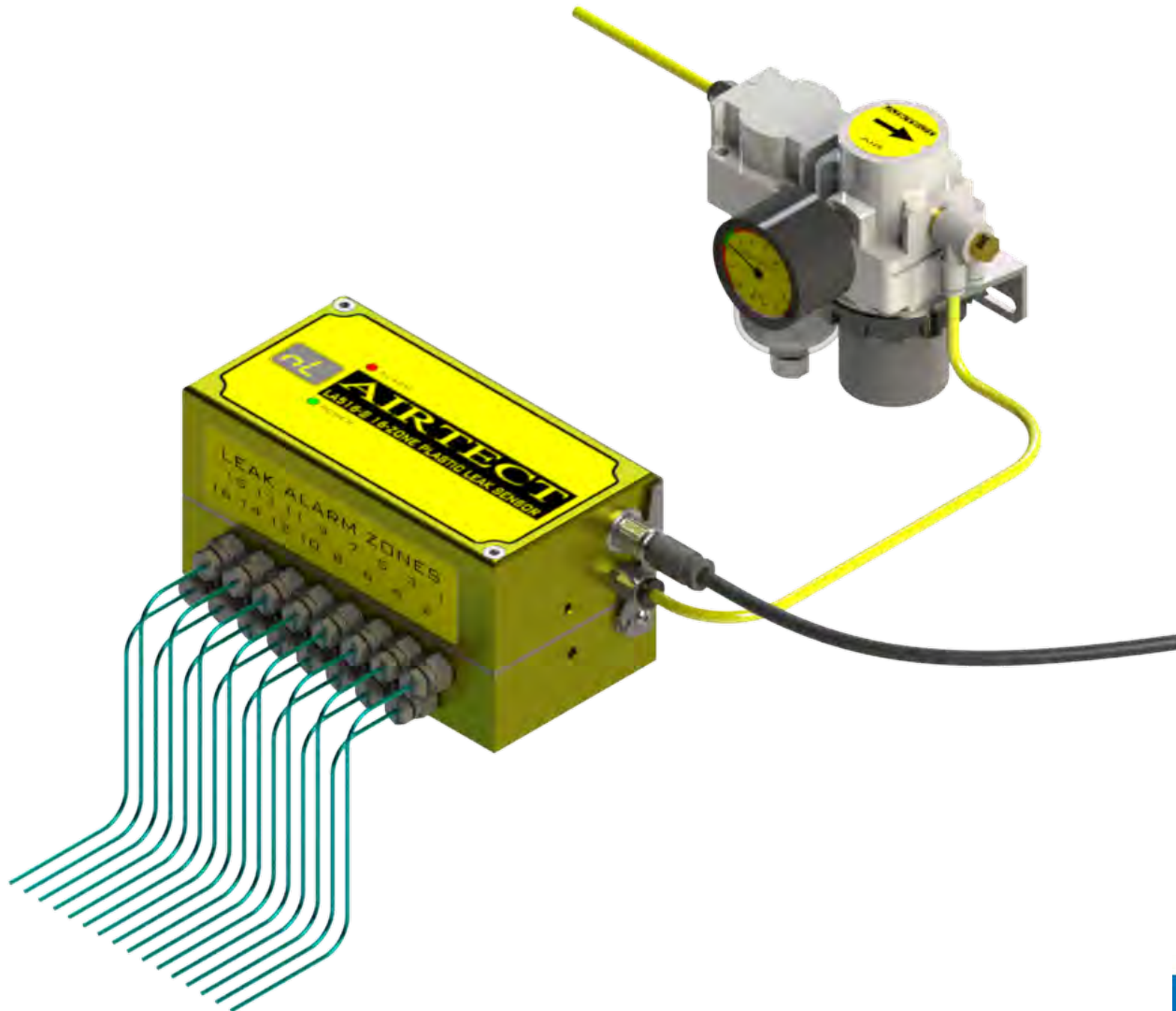
LA504S 4-ZONE 'STAND-ALONE' EXAMPLE



LA508S 8-ZONE 'STAND-ALONE' EXAMPLE



LA516S-M-S 16-ZONE 'STAND-ALONE' EXAMPLE



4-ZONE LEAK DETECTION SYSTEM OPTIONS WITH PROGRAMMABLE CONTROL

LA500



or

LM2050



+

LA504



+ PCC-X

FIXED 4-ZONE

LA500



or

LM2050



+

+ PCC-X

LA504-M-H



+

LA504-B



MODULAR 4-ZONE

LA500



or

LM2050



+

+ PCC-X

LA504-M-S



+

LA504-B



MODULAR 4-ZONE

4-ZONE LEAK DETECTION SYSTEM OPTIONS WITHOUT PROGRAMMABLE CONTROL

LA504-S



FIXED STAND-ALONE 4-ZONE

LA504-S-M-H



+

LA504-B



MODULAR STAND-ALONE 4-ZONE

LA504-S-M-S



+

LA504-B



MODULAR STAND-ALONE 4-ZONE



8-ZONE LEAK DETECTION SYSTEM OPTIONS WITH PROGRAMMABLE CONTROL

LA500



or

LM2050



+

LA508-N



+ PCC-X

FIXED 8-ZONE

LA500



or

LM2050



+

LA508-M-H-N



+

LA508-B



+ PCC-X

MODULAR 8-ZONE

LA500



or

LM2050



+

LA508-M-S-N



+

LA508-B



+ PCC-X

MODULAR 8-ZONE

8-ZONE LEAK DETECTION SYSTEM OPTIONS WITHOUT PROGRAMMABLE CONTROL

LA508-S



FIXED STAND-ALONE 8-ZONE

LA508-S-M-H



+

LA508-B



MODULAR STAND-ALONE 8-ZONE

LA508-S-M-S



+

LA508-B



MODULAR STAND-ALONE 8-ZONE

16-ZONE LEAK DETECTION SYSTEM OPTIONS WITH PROGRAMMABLE CONTROL

LA500



or

LM2050



+

LA516-M-H-N



+

LA516-B



MODULAR 16-ZONE

LA500



or

LM2050



+

LA516-M-S-N



+

LA516-B



MODULAR 16-ZONE

16-ZONE LEAK DETECTION SYSTEM OPTIONS WITHOUT PROGRAMMABLE CONTROL

LA516-S-M-H

LA516-B



MODULAR STAND-ALONE 16-ZONE

LA516-S-M-S

LA516-B



MODULAR STAND-ALONE 16-ZONE

ACCESSORIES

AR-20GF



Air pressure regulator + gauge,
air filter and fittings

PU TUBE



Plastic tubing

PCC



Power/communication cable

TUBE-SIL



Silicone rubber tubing

LA-MAN-4



Tube adaptor

LA-MAN-2



Tube adaptor

NUT-SS



Nut and olive set

FIT-PU-SS



Fitting for tubing

FIT-SS-SS



Fitting for stainless tubing

TUBE-SS



Stainless steel tubing

BKT-SS



Fixing bracket

PCC-S



Power / Interlock cable

FREQUENTLY ASKED QUESTIONS

- **Q: How much compressed air is used?**
A: 0.05 Litres per minute per sensor of compressed air at 2PSI.
- **Q: What is the difference between the LA500 and LM2050.**
A: There is no functional difference. Only the Clear Text LCD display with multiple language options.
- **Q: How much DC power is required?**
A: 24Vdc @ 150mA average for LM2050 + LA508. Please note the DC power Source must be free from Electromagnetic Interference (EMI), caused by many devices such a solenoid valves, servo motors etc working on the sale DC power line. Good electrical practice will eliminate all potential problems.
- **Q: How long can the stainless steel sensor tubes be?**
A: The design is for a maximum of about 5 meters.
- **Q: What is the minimum bend radius for the stainless steel tubes without affecting air flow?**
A: R1.6mm for the 1.6mm diameter tube and R2 for the 2mm diameter tube.
- **Q: Where is the Silicone Rubber tube used?**
A: At the end of the stainless steel sensor tube at the main injection nozzle. It is also used within a Hot Runner mould where the temperature is less than 270°C.



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ULTIMATE Plastic Leak Alarm System

BROCHURE

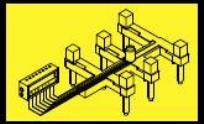
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COMPLETE HOT RUNNER MOLD PROTECTION
DETECT YOUR HOT RUNNER LEAKS EARLY!

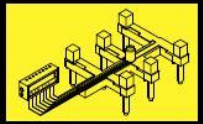


- New **ULTIMATE** range of Plastic Leak Detection Manifolds incorporate 'POINT' Leak Detection Zones + 'LOOP' Leak Detection Zones in the one Manifold
- 'POINT' Plastic Leak Detection Zones are used for the detection of leaking plastic at the Nozzle Gates
- 'LOOP' Plastic Leak Detection Zones are used for the detection of leaking plastic at numerous locations on the Hot Runner Manifold
- 'LOOP' Plastic Leak Detection is provided when the Silicone Rubber tubes are Compressed OR Broken due to closed circuit design
- Available as Stand-Alone Manifolds in 3 Sizes: 6 Point+1 Loop, 12 Point+2 Loops, 20 Point+2 Loops
- Patent Pending

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ULTIMATE Plastic Leak Alarm System

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COMPLETE HOT RUNNER MOLD PROTECTION *DETECT YOUR HOT RUNNER LEAKS EARLY!*

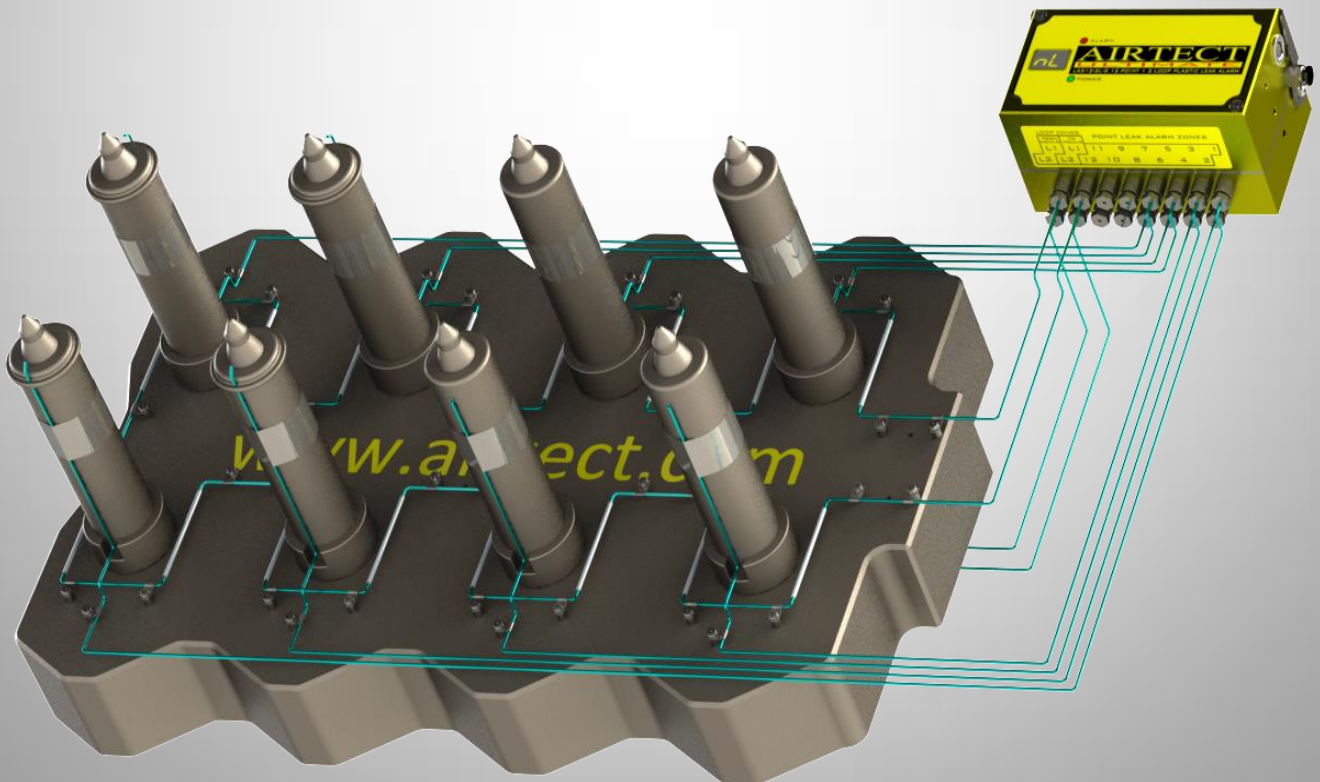
INSTALLATION EXAMPLE USING LA512-2L-S **ULTIMATE** STAND ALONE MANIFOLD

'POINT' Plastic Leak Detection Zones:

- 8 used on the Nozzle Gates (4 unused)

'LOOP' Plastic Leak Detection Zones:

- 1 loop circuit used on the 8 x Nozzle/Manifold interfaces
- 1 loop circuit used on the rear Inlet Bushing/Manifold interface



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PRESENTATION

ULTIMATE

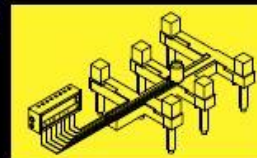


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ULTIMATE Plastic Leak Alarm System

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NEW! AIRTECT **ULTIMATE** Range of Leak Detection Manifolds

COMPLETE HOT RUNNER PROTECTION
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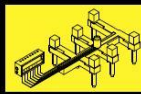
ULTIMATE RANGE OF DETECTION MANIFOLDS

- New ULTIMATE range of Leak Detection Manifolds incorporate POINT Leak Detection Zones + LOOP Leak Detection Zones in the one Manifold.
- POINT Leak Detection Zones are used for detection of leaking plastic at the Nozzle Gates.
- LOOP Leak Detection Zones are used for detection of leaking plastic at numerous locations on the Hot Runner Manifold.
- LOOP Leak Detection is provided when the Silicone Rubber tubes are Compressed OR Broken due to full circuit design.
- Available in 3 Manifold Sizes. See Later.
- Available as Stand-Alone Manifolds.
- Patent Pending.

LA506-1L-S **ULTIMATE** LEAK DETECTION MANIFOLD (6-POINT + 1 LOOP FIXED STAND-ALONE TYPE SHOWN)



AIRTECT



ULTIMATE Plastic Leak Alarm System

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**DETECT YOUR HOT RUNNER
LEAKS EARLY!!**

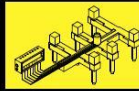
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LA512-2L-S ULTIMATE LEAK DETECTION MANIFOLD (12-POINT+ 2 LOOP STAND-ALONE MODULAR S-TYPE SHOWN)



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DETECT YOUR HOT RUNNER
LEAKS EARLY!!

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LA520-2L-S **ULTIMATE** LEAK DETECTION MANIFOLD (20-POINT+ 2 LOOP STAND-ALONE MODULAR S-TYPE SHOWN)



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LEAKS EARLY!!**

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INSTALLATION EXAMPLE USING LA512-2L-S **ULTIMATE** STAND ALONE MANIFOLD

POINT Leak Detection Zones:

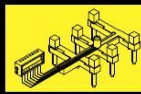
- 8 used on the Nozzle Gates (4 unused)

LOOP Leak Detection Zones:

- 1 loop circuit on the Nozzle/Manifold interfaces.
- 1 loop circuit on the Inlet Bushing/Manifold interface.



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ULTIMATE Plastic Leak Alarm System

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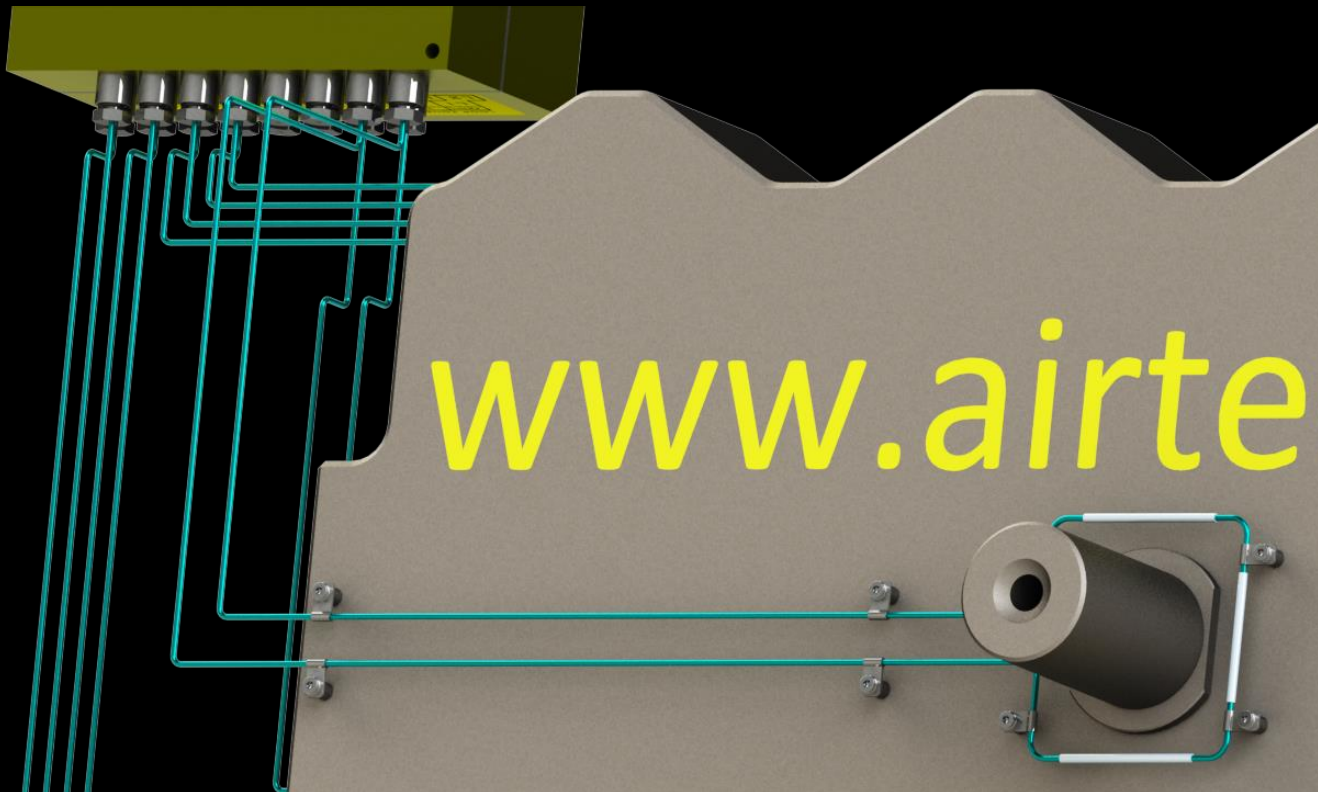
INSTALLATION EXAMPLE USING LA512-2L-S **ULTIMATE** STAND ALONE MANIFOLD

POINT Leak Detection Zones:

- 8 used on the Nozzle Gates (4 unused)

LOOP Leak Detection Zones:

- 1 loop circuit on the Nozzle/Manifold interfaces.
- 1 loop circuit on the Inlet Bushing/Manifold interface.



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ULTIMATE RANGE OF MANIFOLDS

PART NUMBER	DESCRIPTION
LA506-1L-S	6-POINT + 1 LOOP FIXED STAND-ALONE LEAK ALARM MANIFOLD
LA506-1L-S-M-H	6-POINT + 1 LOOP MODULAR STAND-ALONE LEAK ALARM MANIFOLD (HANDLE RELEASE - USE LA508-B BASE UNIT)
LA506-1L-S-M-S	6-POINT + 1 LOOP MODULAR STAND-ALONE LEAK ALARM MANIFOLD (SCREW RELEASE - USE LA508-B BASE UNIT)
LA512-2L-S-M-H	12-POINT + 2 LOOP MODULAR STAND-ALONE LEAK ALARM MANIFOLD (HANDLE RELEASE - USE LA516-B BASE UNIT)
LA512-2L-S-M-S	12-POINT + 2 LOOP MODULAR STAND-ALONE LEAK ALARM MANIFOLD (SCREW RELEASE - USE LA516-B BASE UNIT)
LA520-2L-S-M-H	20-POINT + 2 LOOP MODULAR STAND-ALONE LEAK ALARM MANIFOLD (HANDLE RELEASE - USE LA524-B BASE UNIT)
LA520-2L-S-M-S	20-POINT + 2 LOOP MODULAR STAND-ALONE LEAK ALARM MANIFOLD (SCREW RELEASE - USE LA524-B BASE UNIT)

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