



# **APPLICATION**

RFID technology with IO-Link connectivity eliminates hose-coupling errors in fluidized pneumatic-transport systems

Bulk-handling- and pneumatic-transport-system designers use RFID technology to eliminate connection errors at manual hose-coupling stations for fluidizable materials. Coupling stations, with IO-Link-enabled RWMs mounted on each outlet pipe, use manual quick-release hoses to feed materials to multiple machines. RFID tags, mounted integrally within each hose coupling and blanking cap, identify the mating parts uniquely, allowing individual outlet/hose combinations to be verified at the time of connection.

# **INDUSTRIES**

Automotive production and supply, machine tool, packaging, logistics, materials handling, assembly, automation, robotics



Machine tools



Packaging systems



Automotive industry



Robotics

# ◇ IO-Link R/W MODULES RFID ◇ IO-Link – EASY TO GO!

Ideal for Industry 4.0 solutions, IO-Link read/write modules (RWMs) combine two of the key communication standards in one device: ISO 15693 at the readwrite head for communication with tags and ISO 61131-9 at the S12 connector for communication with the control system. Their simplified, plug-and-play installation ensures easy, cost-effective integration.

# **KEY ADVANTAGES**

- ✓ O IO-Link protocol V1.1 with a single operating mode
   ✓ O IO-Link Device:
  - ✓ Scan UID and Read/Write RFID data on transponder whether automatically or trigger based
  - ✓ Two alarms configurable to monitor transponder-in-range time or RSSI level
  - ✓ Get UID history list with time stamps
  - ✓ Secure mode to add security in the transponder memory access
  - ✓ Locate/FindMe function to quickly identify RWM mounted in a machine
  - ✓ New Diagnostic function such as individual system time, power-on cycle counter, RFID Error counter
  - ✓ Stand-alone SIO: Switching on tag presence, data comparison and alarm conditions
  - ✓ Temperature range -25°C ... +80°C (-13 ... 176°F)
  - ✓ Integral S12 connector with integrated bi-color LED
  - ✓ IP67 (IP68 and IP69K for C44)







# PRODUCT OVERVIEW

🚷 IO-Link	O-Link							
Housing size mm	M18	M30	C44					
Read/write distance max (mm)	26/42	58/60	80					

# ACCESSORIES

Go to page 290 to see all the accessories



# RFID 🚷 IO-Link

# OUTPUT

Housing size [M18] Cylindrical M18 [M30] Cylindrical M30 [C44] Cubic C44

RLH-[xxx]PA-NIS

- Housing size [18] M18 [30] M30

RLS-1[**xx**]1-320

Reference key on pages 294–297

## ACCESSORIES



# **FID IO**-Link **READ/WRITE MODULES**

ILY	READ/WRITE DISTANCE MAX. (mm)	HOUSING SIZE (mm)	OPERATING FREQUENCY	STANDARD	
	26	M18		ISO/IEC 15693	
	42	M18		ISO/IEC 15693	
	58	M30	Æ	ISO/IEC 15693	
	60	M30		ISO/IEC 15693	
	80	40 × 40 (C44)		ISO/IEC 15693	

IO-Link

FAMI

### **VIEW RFID** DATASHEETS

www.contrinex.com/product\_range/rfid-io-link



IO-LINK RWMs

### **KEY ADVANTAGES**

- operating mode
  - ✓ ⊗ IO-Link Device:
    - Scan UID and Read/Write RFID data on transponder whether automatically or trigger based
    - Two alarms configurable to monitor transponder in range time or RSSI level
    - Get UID history list with time stamps
    - Secure mode to add security in the
    - transponder memory access

- · Locate/FindMe function to quickly identify RWM mounted in a machine
- New Diagnostic function such as individual system time, power-on cycle counter, **RFID Error counter**
- ✓ Stand-alone SIO: Switching on tag presence, data comparison and alarm conditions
- Temperature range -25°C ... +80°C
- (-13...176°F) Integral S12 connector with integrated 1 bi-color LED
- ✓ IP67 (IP68 and IP69K for C44)

USER MEMORY SIZE (BYTE)	HOUSING MATERIAL	MOUNTING	INTERFACE	CONNECTION/ CONNECTOR	AMBIENT TEMPERATURE	PART REFERENCE
96	Chrome-plated brass	Non-embeddable	$IO-Link \times RFID$	(****) M12	−25+80°C	RLH-M18PA-NIS
16	Chrome-plated brass	Non-embeddable	$IO-Link \times RFID$	(***) M12	−25+80°C	RLS-1181-320
96	Chrome-plated brass	Non-embeddable	$IO-Link \times RFID$	(***) M12	−25+80°C	RLH-M30PA-NIS
16	Chrome-plated brass	Non-embeddable	$IO-Link \times RFID$	(***) M12	−25+80°C	RLS-1301-320
96	PBTP	Non-embeddable	$IO-Link \times RFID$	(***) M12	−25+80°C	RLH-C44PA-NIS