



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