



APPLICATION

RFID tags withstand elevated temperatures during automotive paint curing

Identification components in paint shops are exposed to a variety of rinsing, coating and burning operations, including electrophoresis. Since soiling makes visual identification difficult or impossible, rugged RFID systems are an excellent solution. The RFID tag accompanies each product throughout all painting processes. It can store individual data, including customer requirements, directly on the product or carrier. This allows highly automated customized processes, with smaller batches and central data storage.

INDUSTRIES

Automotive production and supply, maritime, food and beverage



Paint shop in automotive industry



Maritime industry



Brewery production equipment



Automotive part sensing

HIGH TEMPERATURE TAGS RFID READY TO BAKE

Designed for environments up to 180 or 250°C, **High Temperature** tags offer exceptional longevity and a thermal-cycling reliability of 1000 hours (or 1000 cycles). Tags are insensitive to dirt and provide between 112 and 2000 Bytes of user memory. As passive devices, no battery or other power source is required. Housings are impervious (IP68 and IP69K).

KEY ADVANTAGES

- √ High frequency, fully compatible with ISO/IEC 15693
- ✓ Exceptionally long life-expectancy, even under intense read/ write and temperature cycling
- ✓ Insensitive to dirt

\emptyset 26 mm, PPS housing

- √ Temperature range -25 ... +180°C (-13 ... +356°F)
- ✓ Embeddable in metal
- ✓ User memory size (EEPROM): 160 Byte

Ø50 mm, LCP housing

- ✓ Temperature range -25...+250°C (-13...+482°F)
- √ 100% silicone-free, ideal for paint-shop applications (LABS-free, PWIS-free)
- ✓ User memory size:
 - ✓ FRAM technology: 2000 Byte (RTP-0502-062)
 - ✓ EEPROM technology: 112 Byte (RTP-0502-082) and 160 Byte (RTP-0502-022)



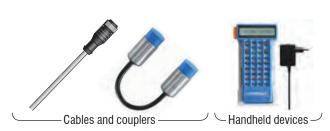


PRODUCT OVERVIEW

Housing size mm	Ø26 mm	М30		
Read/write distance max (mm)	12	12		

ACCESSORIES

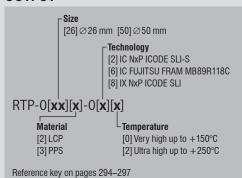
Go to page 290 to see all the accessories





RFID HIGH TEMPERATURE

OUTPUT



ACCESSORIES





HOUSING SIZE (mm)	USER MEMORY SIZE (BYTE)	READ/WRITE DISTANCE MAX. (mm)						
Ø 26	160	31						
Ø 50	112	42.5						
Ø 50	160	50						
Ø 50	2000	44.5						
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FAMILY

VIEW RFID DATASHEETS

www.contrinex.com/product_range/rfid-high-temperature

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OPERATING FREQUENCY	STANDARD	HOUSING MATERIAL	MOUNTING	INTERFACE	STORAGE TEMPERATURE	AMBIENT TEMPERATURE	PART REFERENCE
	ISO/IEC 15693	PPS	Embeddable	RFID	−40+180°C	−25+180°C	RTP-0263-020
(F)	ISO/IEC 15693	LCP (liquid crystal polymer)	Non-embeddable	RFID	−40+250°C	−25+150°C	RTP-0502-082
	ISO/IEC 15693	LCP (liquid crystal polymer)	Non-embeddable	RFID	−40+250°C	−25+150°C	RTP-0502-022
	ISO/IEC 15693	LCP (liquid crystal polymer)	Non-embeddable	RFID	−40+250°C	−25+150°C	RTP-0502-062
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