The Right Choice for Demanding Conditions

The SMARTRAC MAXDURA® DISC product family is a robust solution purpose-built for use in severe industrial environments.

Made of polyamide and glass fiber reinforced, the tag is the right choice for outside applications as it is very compact and resistant. It is ideal for items that need to be securely identified and that are regularly subjected to high thermal and/or mechanical stress conditions. Examples include items that pass hot water cleaning processes or are used in other high temperature environments found in some heavy industries.

MAXDURA DISC with Fujitsu FRAM IC is especially designed for different kinds of medical applications due to the bigger memory size and resistance to gamma radiation.

Thanks to its new molding and specific modified thermoplastic, the MAXDURA DISC can withstand long water immersion, chemicals and high temperatures. Equipped with an anti-collision feature it offers the advantage that several tags can be read at the same time thus accelerating and simplifying processes.

13.56 MHz

NXP ICODE SLIX, SLIX2, &
NXP ICODE SLI-L
Fujitsu FRAM 2kB, rev. C

Ø 16 mm (0.63 in)
Ø 20 mm (0.79 in)
Ø 30 mm (1.18 in)
Ø 50 mm (1.97 in)

ISO 15693
ISO 18000-3
IP67

Automotive parts
Medical applications
Pallet identification
Warehouse management

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IC + Memory	Tag Size	Thickness	Hole Diameter	Sales Code
NXP ICODE SLI-L 512 bit	Ø 15 mm / 0.63 in Material: PPS, natural Beige	2.5 mm / 0.10 in	N/A	3002615
NXP ICODE SLIX 1k bit	Ø 20 mm / 0.79 in Ø 30 mm / 1.18 in Ø 50 mm / 1.97 in	2.5 mm / 0.10 in 3.0 mm / 0.12 in 3.6 mm / 0.14 in	N/A 5.2 mm / 0.20 in 5.2 mm / 0.20 in	3002556 3002557 3002558
NXP ICODE SLIX2 2.5k bit	Ø 20 mm / 0.79 in Operating	2.5 mm / 0.10 in	N/A	3006820
Fujitsu FRAM 2kB, rev. C 2k byte	Ø 16 mm / 0.63 in* Ø 20 mm / 0.79 in Ø 30 mm / 1.18 in Ø 50 mm / 1.97 in	3.0 mm / 0.12 in 2.5 mm / 0.10 in 3.0 mm / 0.12 in 3.6 mm / 0.14 in	N/A N/A 5.2 mm / 0.20 in 5.2 mm / 0.20 in	3006588 3002559 3002560 3002561
Operating Temperature	for NXP ICODE SLIX: for NXP ICODE SLIX2: for NXP ICODE SLI-L & Fujitsu FRAM 2kB:		-35°C to 85°C / -31°F to 185°F -40°C to 85°C / -40°F to 185°F -20°C to 85°C / -4°F to 185°F	
Storage Temperature	-35°C to 100°C / -31°F to 212°F (max 168h)			
Material	Polyamide with glass fiber for Ø 20 mm, Ø 30 mm, Ø 50 mm			
Color & Add. Options	Black, Printing upon request			
IP Class	IP67			
Shelf Life	+20 °C, 50 % RH / 68 °F, 50 % RH - minimum 2 years from the date of manufacturing			

*Additional Technical Details for Disc 16 mm:

Material:	PPS, Black
Peak Temperature Test:	+220°C, 1 × 10 sec
Thermal Cycling:	low temp.: +20°C; high temp.: +170°C, transition time: 10 min↑, 5 min↓, soak time: 10 min, number of cycles: 200
Immersion in Water:	depth: 2 m for 24 hrs at 20°C
Drop Test:	2 m on concrete floor, 100 times

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