INDUSTRY Range

Electronic Tag

TAI20 IC SLI

www.balogh-rfid.com

DESCRIPTION

Radiofrequency tag made up of an electronic chip and an antenna.

- Standard : ISO 18000-3 mode 1, ISO 15693
- 4-bytes block are read/written
- Memory : 112 bytes + UID
- Frequency : 13.56 MHz

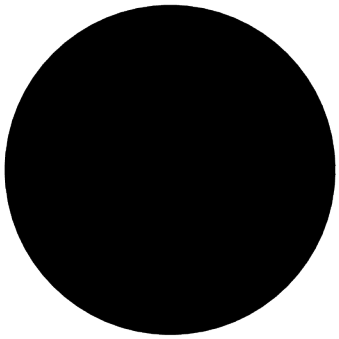
READING SYSTEM

Interface card + reader head:
- Field bus interfaces type BIxx170 MCMC and the read / write reader type TCF
- Programmable interface card CEPR(CF)96 Mc and TCF

Interface card + reader monoblock:
- Field bus interfaces type BIxx 170 RmRm and monoblock MOFxxx M 485
- Network interface type BRMO80 and monoblock MOFxxx M 485
- Card CEPR(CF)96 Rm and monoblock MOFxxx M 485

Reader monoblock:
- The monoblock MOFxxx M 485 on RS485 protocol Modbus RTU

DIMENSIONS



height : 2.5 mm ±0.5mm

CHARACTERISTICS

TAI20 IC SLI *(TAG without metal ; reader on metal)*	MONOBLOC or E/R		
	MOF/TCF932	MOF/TCF100	MOF200
S_n "nominale" range (mm)	25	75	70
S_r recommanded range (mm)	15	40	45
LS_r Lenght of transmission zone @ S_r (mm)	20	55	80
D_{tt} distance tags end to end (mm)	120	180	320
D_{er} distance transceivers end to end (mm)	120	110	260
D_{ef} distance transceivers face to face (mm)	120	110	260

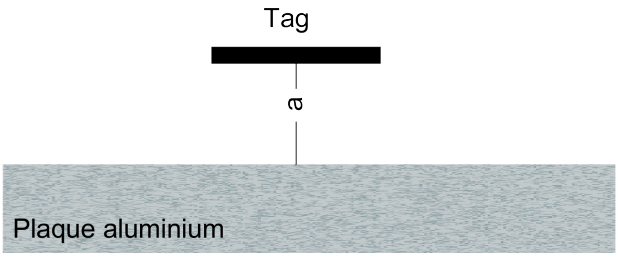
	min	nominal	max	unit
Transmission Radiofréquence				
Operating frequency		13,56		MHz
Reading time		5 ms/block of 4 bytes		
Writing time		10 ms/block of 4 bytes		
Memory				
Memory capacity		112		bytes
UID		64		bits
Read endurance		100 000		cycle
General				
Chip type		I-code SLI		-
Storage temperature	-40		90	℃
Operating temperature	-25		85	℃
Protection rating		IP68 - 20℃, 1m, 24h		-
Material		PA6 - food compatible		-
Vibration		IEC 68.2.6		-
Shock		IEC 68.2.29		-
Weight		1,3		g

MAPPING						
1st byte address for each block	Byte 1	Byte 2	Byte 3	Byte 4	Description	Access
0000H					User zone 112 bytes and 28 blocks	Read and write
0004H						
:						
:						
:						

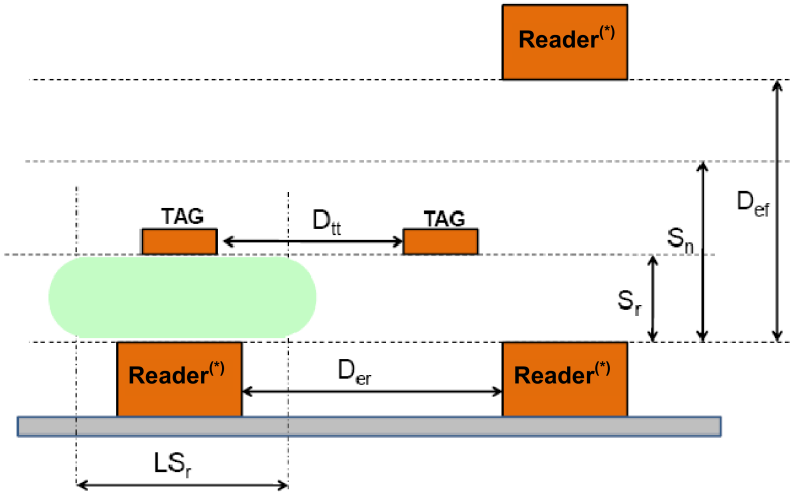
ASSEMBLY RECOMMENDATIONS

● **The tag is not to be mounted directly in a recessed metal cavity :**
A minimum metal-free clearance surrounding the tag is required as pictured

	MONOBLOC ou E/R		
	MOF/TCF932	MOF/TCF100	MOF200
a (mm)	10	10	85



● **Important:**
Except for bulk reading, a minimum distance(Dtt) must be maintained between two tags to prevent any reading or writing error caused by two tags of the same reader (Dtt is published in the reader data sheet) :



Transmission zone style
(the actual outline depends on the reader)

S_n	"nominale" range
S_r	Recommanded range
LS_r	Lenght of transmission zone at S_r
D_{er}	Distance transceivers end to end
D_{ef}	Distance transceivers face to face
D_{tt}	Distance tags end to end
(*)	Reader or Monoblock

ACCESSORY

► Nobody