INDUSTRY Range

Electronic tag

TAM931 8K

www.balogh-rfid.com

DESCRIPTION

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

- Standard : ISO 18000-3 mode 1, ISO 15693
- 8 bytes block are read/written in compliance with the standards ISO 18000-3 mode 1 and ISO15693
- Data could also be read/written in compliance with BALOGH 52kBit/s protocol
- Memory : 8 Koctets
- Fréquency : 13.56 MHz

READING SYSTEM

Interface card + reader head:

- Field bus interfaces type BIxx170 MCMC (tags ISO15693) and the read / write reader type TCF
- Field bus interfaces type BIxx170 TT (tags TAM...) and the read / write reader type TCF
- Programmable interface card CEPR(CF)96 Mc and TCF

Interface card + reader monoblock:

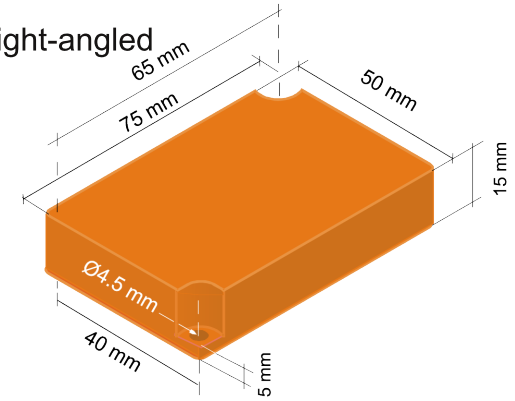
- Field bus interfaces type BIxx 170 RmRm and monoblock MOFxxx M 485
- Network interface type BRMO80 and monoblock MOFxxx M 485
- Card CEPR(CF)96 Rm and monoblock MOFxxx M 485

Reader monoblock:

- The monoblock MOFxxx M 485 on RS485 protocol Modbus RTU

ASSEMBLY

Assembly using two screws (right-angled distances : 65x40mm)



RFID INDUSTRY RAILWAYS SECURITY

BALOGH

CHARACTERISTICS

TAM931 8K *(TAG without metal ; reader on métal)*	MONOBLOCK or Transceiver		
	MOF/TCF932	MOF/TCF100	MOF200
S_n nominal range (mm)	30	85	110
S_r recommanded range (mm)	21	50	75
LS_r Lenght of transmission zone @ S_r (mm)	30	65	105
D_{tt} distance between tags end to end (mm)	160	240	400
D_{er} distance between transceivers end to end (mm)	120	150	260
D_{ef} distance between transceivers face to face (mm)	120	150	260

	min	nominal	max	unit
Transmission Radiofrequency				
Carrier frequency		13,56		MHz
Memory				
Memory capacity		8K		Bytes
Read/write endurance		$>10^{10}$		-
General				
Chip type		FRAM		-
Data retention		45		year
Operating temperature	-25		85	℃
Protection rating		IP67		-
Casing		RILSAN		-
Weight		82		g

In standards ISO18000-3 MODE1 and ISO15693: in the user zone, only the above mentioned blocks are accesible; the numbers of bytes to read/write must be a multiple of 8

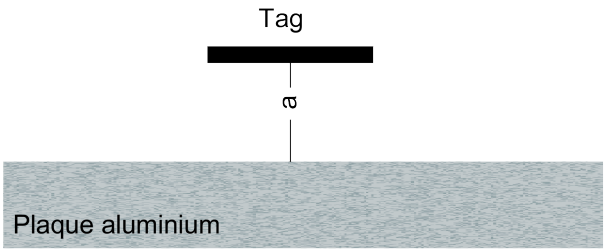
MEMORY										
1er byte adress to reach block	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8	Description	Access
0000H									User zone 8Kbytes and 1024 blocks	R/W
0008H										
:										
:										
:										

With BALOGH 52Kb: user can read/write data byte per byte.

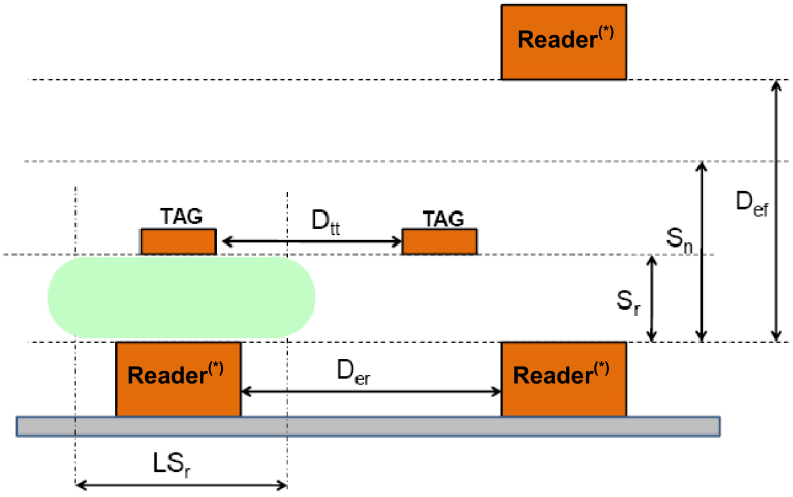
ASSEMBLY RECOMMENDATIONS

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

	MONOBLOC ou E/R		
	MOF/TCF932	MOF/TCF100	MOF200
a (mm)	0	10	40



● **Important:**
A minimum distance D_{tt} must be maintained between two tags to prevent any reading or writing error caused by two tags of the same reader



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

S_n	Nominal range
S_r	Recommanded range
LS_r	Lenght of transmission zone @ S_r
D_{er}	Distance between transceivers end to end
D_{ef}	Distance between transceivers face to
D_{tt}	Distance tags end to end
(*)	Transceiver ou Monoblock

ACCESSORY

► Nobody