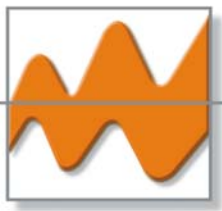


BALOGH



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IDENTIFICATION SYSTEMS

Electronic tag

OMX 931

DESCRIPTION

- Read/Write tag equipped with a Ferroelectric RAM of 8 kbytes (OMX931/8K) or 32 kbytes (OMX931/32K).
- No power source needed.
- Remote reading and writing.

READ / WRITE SYSTEM

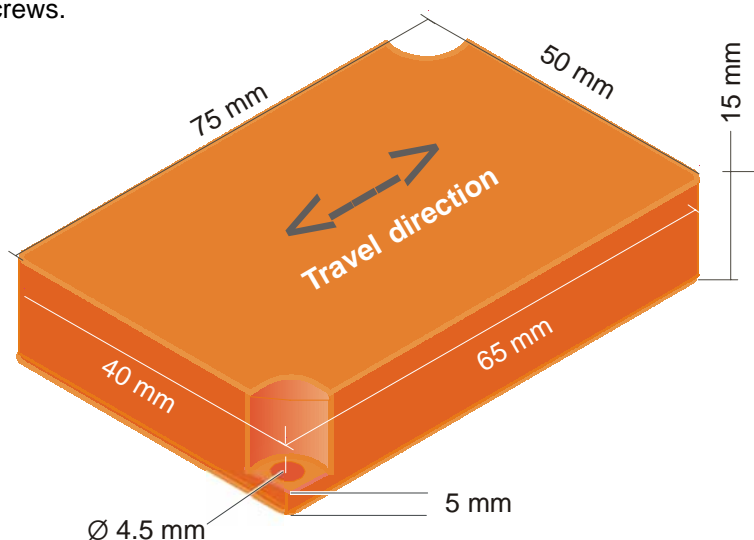
OMX 931 data are read/written:

- on an automated line : using a R/W head type ERC connected to an appropriate Balogh control board (suffix: X) *,
- off-line (maintenance) using
 - either the LAPC 17/EAX connected to an appropriate host type PDA, PPC or PC (consult us)
 - or the handheld PM 15.

*) reading/writing bytes to/from the upper part of the OMX 931/32K memory are subject to restrictions: report to Balogh Product guide.

DIMENSIONS

Assembly using two screws.



R/W heads

Transmission parameters	ERC 71			ERC 85 ERC 100			ERC 85 / 1260			ERC 80			ERC 80/ 225			Unit
	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
S _n "nominal" range	25			50			25			70			50			mm
S _r recommended range	from S _{min} to 0.4 x S _n															mm
S _{min} operation lower threshold	3			5			2			5			5			mm
LS _r trans. zone length @0.4xS _n	65 ¹⁾			100 ²⁾			40 ³⁾			110 ⁴⁾			170 ⁵⁾			mm
time to read/write n bytes	0.5 + 0.5 x n															ms

Maximum allowed offsets for LS_r to have the published value:

- angular: ± 20°
- lateral (mm): ¹⁾ ± 12 ²⁾ ± 25 ³⁾ ± 10 ⁴⁾ ± 20 ⁵⁾ ± 10

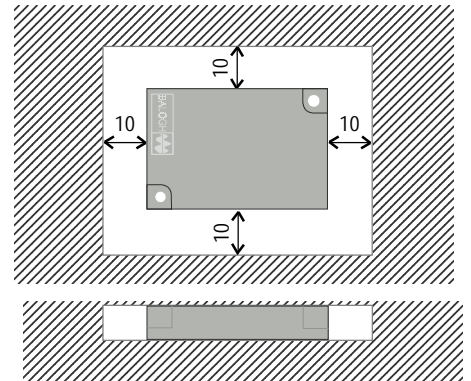
Test condition: R/W heads in non-metallic environment.

	Parameters	Minimum	Typical	Maximum	Units
MEM.	Memory capacity	8 or 32			kbytes
	Number of reads or writes (one byte)	10 ¹⁰			-
GENERAL	Ambient temperature	- 25		+85	°C
	Storage temperature	- 40		+85	°C
	Casing	Rilsan			-
	Weight	100			g
	Protection rating	IP 67			-

Refer to the Assembly manual for the general recommendations.

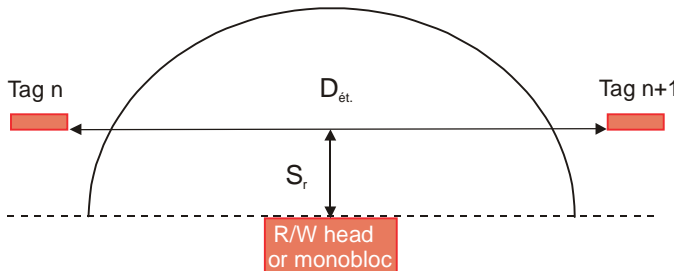
The OMX 931 tags are not to be mounted directly in a recessed metal cavity.

A minimum metal-free clearance surrounding the tag is required:



The safety feature (Dét) prevents any reading or writing error caused by two tags entering the field of the same head.

The table shows the min. distance to be maintained between two tags:



R/W head	Dét (mm)
ERC 71	100
ERC 85 or 100	150
ERC 85/1260	150
ERC 80	240
ERC 80/225	360