

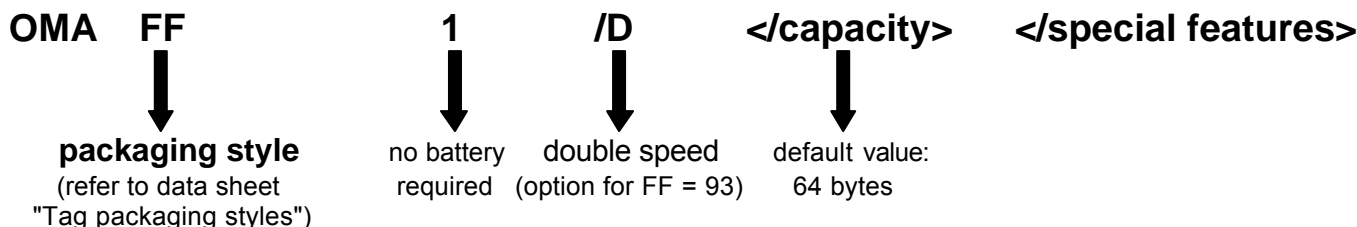
Electronic tags

# OMA series

## with FRAM

## IDENTIFICATION SYSTEMS

### REFERENCES



### DESCRIPTION

R/W tags where data can be transmitted without contact or line-of-sight to/from:

- a stationary R/W head (types: ERO, ERA or TLEB) in conjunction with an appropriate Balogh interface in serial mode (interface suffix: A in standard speed, D in double speed) or in parallel mode (CELA 81: consult Balogh),
- a maintenance handheld (LAPC 17 / EAX or PM 15).

### COMMON CHARACTERISTICS

- Code..... R/W
- Memory technology..... Ferro-electrique RAM
- Memory capacity .....64 bytes, 2 or 8 Kbytes (styles 73 & 86 : no 8 Kb)
- Number of reads and writes ..... unlimited
- Typical R/W time (using ERO/ERA/TLEB) in standard speed.....50 + 10 ms/ byte
- Typical R/W time (using ERO/ERA/TLEB) in double speed.....25 + 5 ms/ byte
- Minimum operating temperature ..... - 25 °C
- Packaging ..... Rilsan
- Protection rating (style 93 is IP 67 in addition)..... IP 65

### CHARACTERISTICS DEPENDENT ON OMA & R/W HEAD STYLES

style	tempe rature	associated R/W heads (Dét. in mm)						weight
		ERA styles	Dét.acc.to ERA style	ERO styles	Dét.acc.to ERO style	TLEB	Dét.	
71	< 85°C			71 / 85 or 100	80 / 180	891	110	35 g
73	< 70°C			71 / 85 or 100	80 / 160	891	60	25 g
83	< 70°C	85 / 80	100 / 340	71 / 85 or 100/ 80	80 / 220 / 240	891	110	100 g
85	< 85°C	85 / 80	120 / 400	85 or 100 / 80	320 / 440			450 g
86	< 85°C			85 or 100 / 80	180 / 400			40 g
93	< 85°C	85 / 80	110 / 400	71 / 85 or 100 /80	90 / 220 / 360	891	110	100 g

**Dét:** distance to be maintained between tags to prevent error caused by two tags entering the field of the same head.

**Ranges:** refer to the data sheets of R/W heads (transceivers).

### SPECIAL FEATURES

OMA 931/2K/1291: the access to the additional FRAM (byte addresses ranging from 800 h to 83F h) is disabled.

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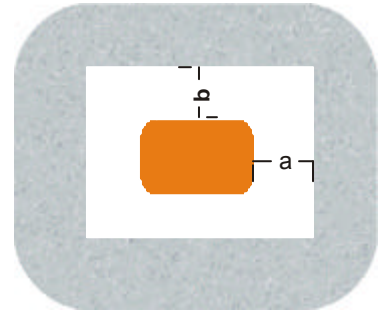


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## **IDENTIFICATION SYSTEMS**

### **Tag environment:**

the tags are not to be mounted directly in a recessed metal cavity.  
To reach the ranges mentioned in the R/W head data sheets,  
metal-free clearances round the tag are required as a minimum:



**93**

a and b  $\geq$  10 mm

**73**

a and b  $\geq$  10 mm

2 travel directions.

Hand mounted on the plastic bracket (included).

**71**

a and b  $\geq$  10 mm

**83**

a and b  $\geq$  10 mm

Hand mounted on the (included) plastic bracket, the wings of which may be hand cut out.

**86**

flush  
mounting

Direct the badge perpendicularly to the plane of the R/W head.

**85**

$\geq$  30 mm on 3 sides

Fixed through four diagonally-directed oblong holes.

**56**

a and b  $\geq$  30 mm

Fixed in cement or concrete.

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subject to modifications

Ref: **F-03-28-03-GB** Packaging styles id2