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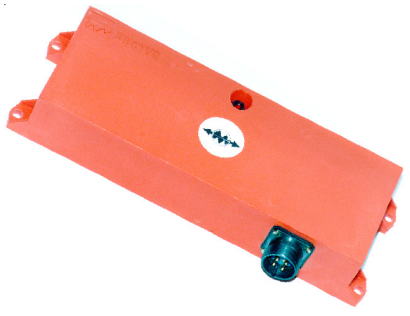
IDENTIFICATION SYSTEMS

R/W head

ERC 80/225

DESCRIPTION



R/W head intended for reading / writing data to/from OMX Series electronic tags in a transmission zone especially long.

it has to be connected to an appropriate Balogh control board (suffix: X).

It is fitted with a Hypertac keyed male 4-pin receptacle;
the cable connector is jointly delivered.

DATA FOR ASSEMBLY

Assembly: using four M5 screws.

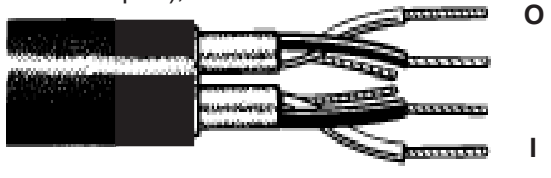
Connection:

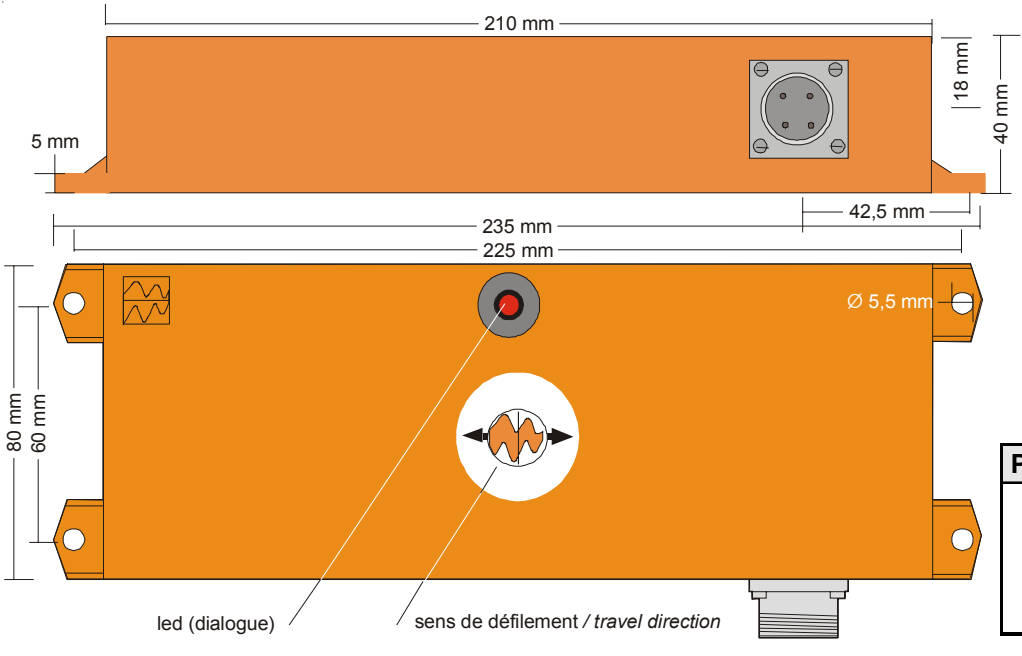
Use a cable with the following characteristics:

- Max.length: 50 m;
- Overall max. capacity between conductors and related shields: 14 nF.

Cable assembly:

- Twin Shielded and Twin Twisted pairs (Output and Input conductors apart);
- Cable outer diameter: 6 to 7 mm;
- Conductors max. diameter: 1,8 mm;
- Both shields must be connected to the 0V.





Pin nr	Description
1	+24VDC
2	Output
3	Input
4	0V supply

CHARACTERISTICS

		Tags						
		OMX 931			OMX 851			
	Parameters	MIN	TYP	MAX	MIN	TYP	MAX	Unit
Functional	S_n ""nominal"" range		50			70		mm
	S_r **recommended** range		from S_{min} to 0.4 x S_n					mm
	S_{min} operation lower limit		5			7		mm
	LS_r transmission zone length @ Sr max		170*			200**		mm
	$D_{ét}$ distance between tags		360			420		mm

Test conditions:
- head and tag in a non-metallic environment;
- max. allowed offsets to have the LS_r published value guaranteed:
  - Angular: ± 20°
  - Lateral : * ± 10 mm ** ± 15 mm.

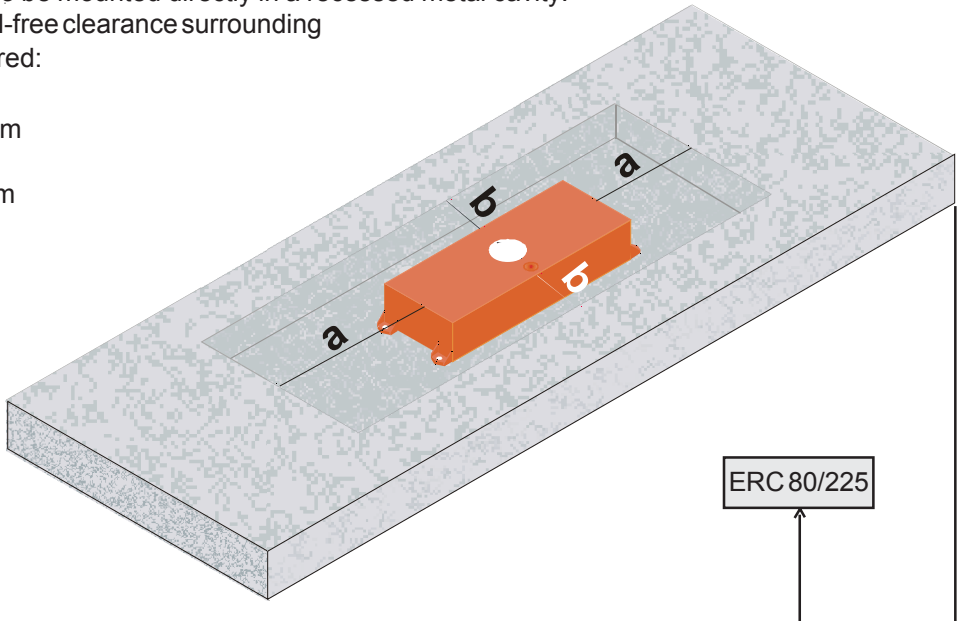
	Parameters	MIN	AVG	MAX	Unit
Electronics	Ambient temperature	- 25		+70	°C
	Supply direct voltage (ripple included)	21	24	29	V
	Supply current @ 24VDC			120	mA
	Protection against polarity reversal		yes		-
Packaging	Casing		PA 12 (30% GF)		-
	Weight		450		g
	Protection rating		IP 65		-

ASSEMBLY RECOMMENDATIONS

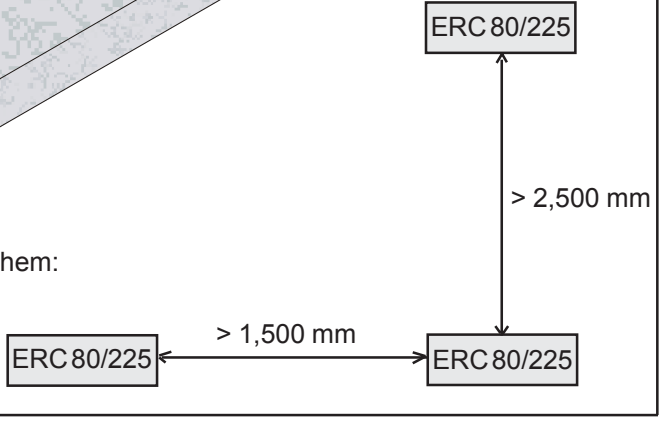
The head is not to be mounted directly in a recessed metal cavity.
A minimum metal-free clearance surrounding the head is required:

a > 100 mm

b > 50 mm



To avoid interference between two heads, there must be a minimum space between them:



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