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IDENTIFICATION SYSTEMS

R/W head

ERP 18/1

DESCRIPTION

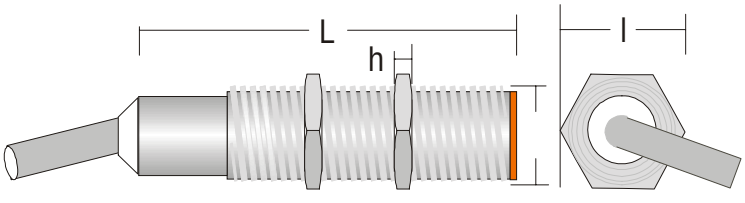
R/W head intended for reading/writing to/from tags EE or EA (R/W) and FE or FA (Read only) with a diameter 12 to 30 mm.

It is embedded with an air antenna (i.e. omnidirectional field), but has to connected to an appropriate Balogh control board (suffix: V).

DATA FOR ASSEMBLY

It is fitted with a shielded 0.85 m-long PUR cable ending with a 5-pin male M12 connector.
An extension cord can be connected; max. length :100 m.

NO multiplexing of signals.



∅ = 18 mm L = 76 mm l = 28 mm h= 4 mm

Pin nr	Assignment
1	+24 V
2	output from ERP
3	input into ERP
4	0 V supply
5	shield

CHARACTERISTICS

			Ø12 R/W tag in				
			metal-free surroundings		common metal, flush mounted		
			R	W	R	W	
	Parameters	MIN	AVG				Unit
Transm.	S_n "nominal" range		15	8	11	6	mm
	S_r **recommended** range		0.4 x S_n				mm
	D_{tt} distance between tags	30					mm

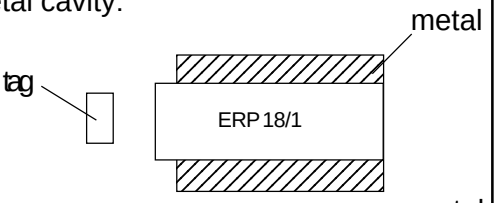
Test condition: the tilt transceiver/ERP sensing face is under ± 10°.

		MIN	AVG	MAX	Unit
Electr.	Supply voltage (ripple included)	21	24	29	V
	Supply current @24V			40	mA
	Carrier frequency		125		kHz
General	Ambient temperature	- 25		+ 70	°C
	Protection rating		IP 65		-
	Casing		Aluminium		-
	Weight		140		g

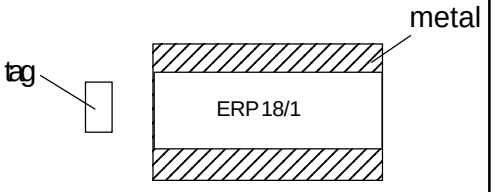
ASSEMBLY RECOMMENDATIONS

The head can be mounted directly in a recessed metal cavity:

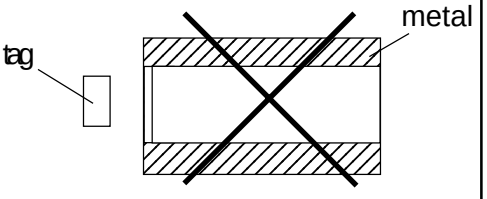
- either with sensing face out:



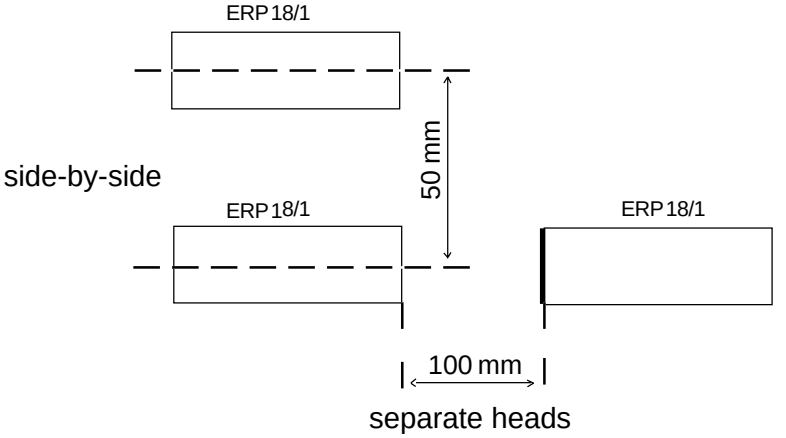
- or flush mounted:



- but avoid to surround the sensing side with metal:



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



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