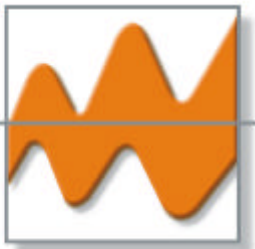


BALOGH



189, Rue d'Aubervilliers C.P. 97 75886 PARIS Cedex 18 FRANCE
Tél : 33 (0)1.44.65.65.00 Fax : 33 (0)1.44.65.65.10
<http://www.balogh-group.com>

Transceiver

ERP 120/A

IDENTIFICATION SYSTEMS

DESCRIPTION

The ERP 120/A transceiver has a built-in air antenna (i.e. omnidirectional field).

Connected with a BALOGH control board, it enables at a 125-kHz carrier frequency to:

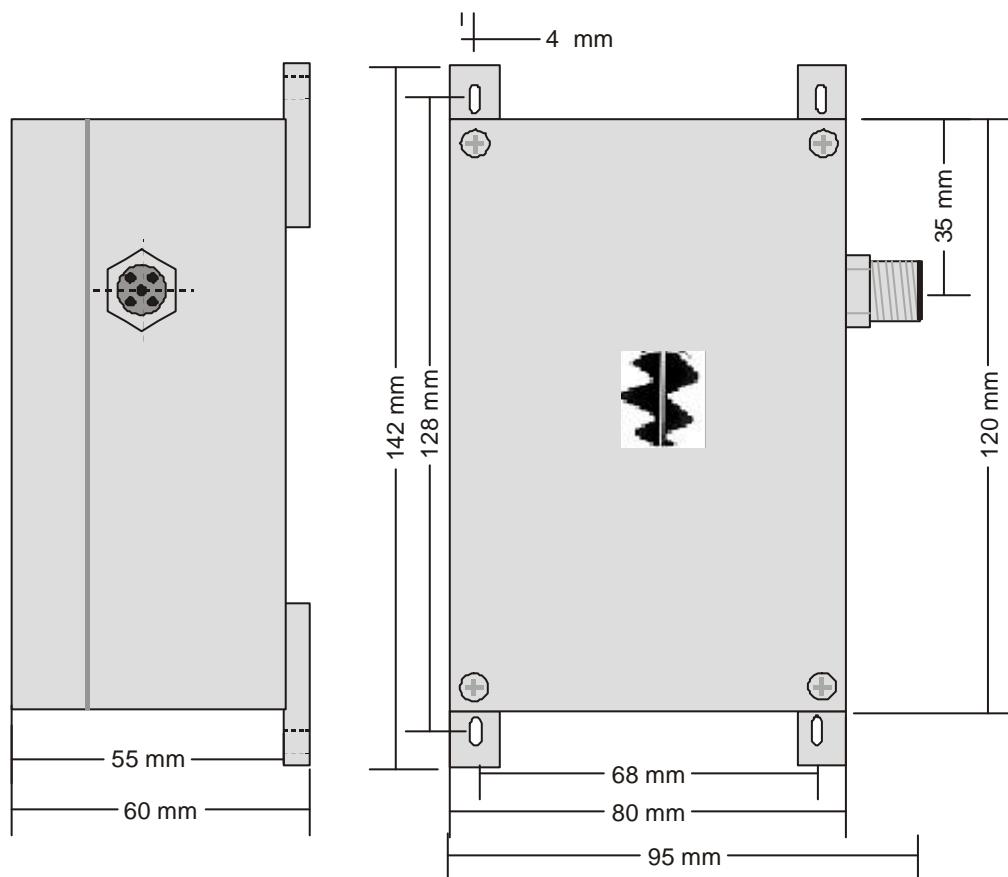
- read / write the E#/116 electronic tags (116-byte read/write code)
- read the F#/32 electronic tags (32-bit random read-only code).

LAYOUT

ERP 120/A - control board connection by a shielded cable (maximum cable length: 100 m).

Warning : multiplexing the signals would produce damages.

If the ERP 120/A is mounted outdoors, the plug must face downwards.



pin	assignment
1	+ 24 V
2	TR output
3	TR input
4	0 V
5	shield

TRANSMITTING CHARACTERISTICS

Note: the data pertaining to the Ø50 tags have been logged while a metal plane was located 20 mm behind.

				TAGS					
				EE/116 ø50x1x5		EE/116 ø30x1		FE/32 ø50x1x5	FE/32 ø30x1
				read	write	read	write		
Recommended range		Sr	mm	75	45	60	35	75	60

Zone									
static	Nominal range	H	mm	150	90	110	65	150	110
	Typical length at Sr	L	mm	140	95	110	80	140	110
	Typical width at Sr	I	mm	90	65	70	50	90	70

GENERAL CHARACTERISTICS

Operating temperature	-25°C to +70°C
Weight	400 g
Protection rating	IP 65
Case	ABS

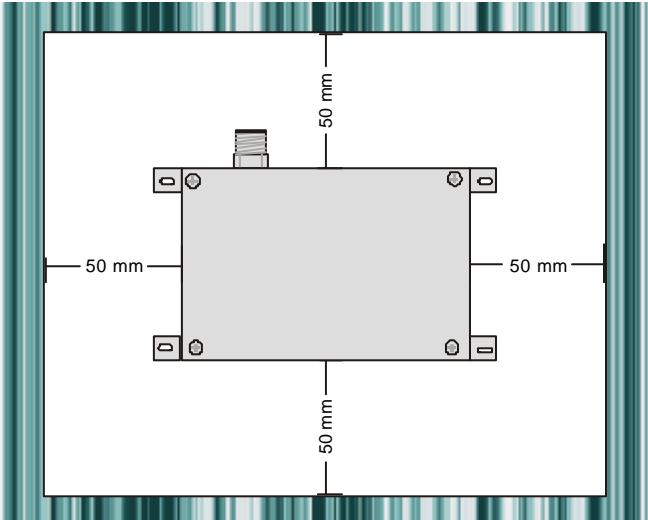
ELECTRICAL CHARACTERISTICS

Power supply voltage	24 VDC
Range of voltage	21 to 29 VDC (including ripple)
Current consumption	400 mA

ASSEMBLY RECOMMENDATIONS

The transceiver ERP120/A is not to be mounted directly in a recessed metal cavity.

A minimum metal-free clearance is required round the transceiver:



To avoid interference between 2 transceivers, there must be a minimum space between them: about 2 m.