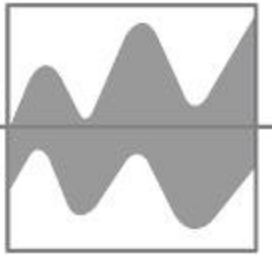


BALOGH



Transceiver ERP 120/A

Identification Systems

Description

The ERP-120/A Transceiver has a built-in antenna A (omni-directional).

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

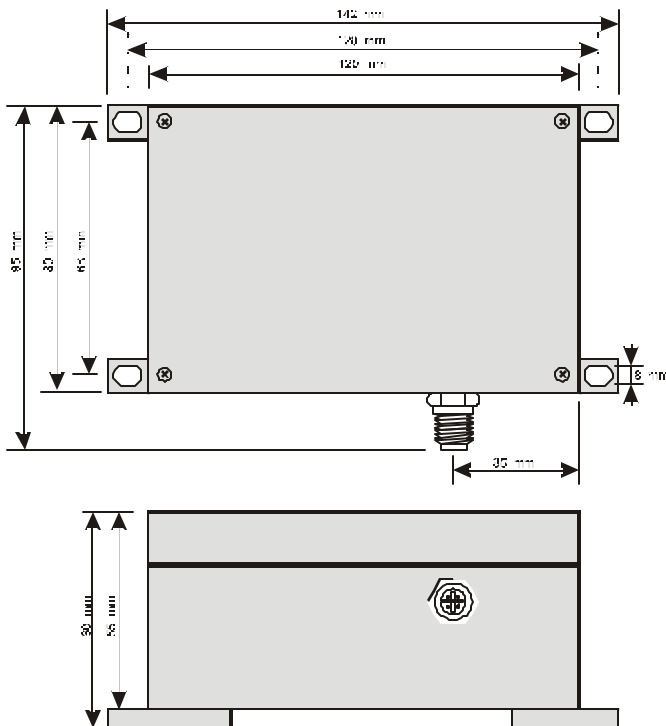
- Read/Write the E#116 electronic TAGS (116-byte Read/Write code).
- Read the F#32 electronic TAGS (32-bit random Read-only code).

Layout

The ERP-120/A - Control board is connected by a shielded cable (maximum cable length – 50m)

Warning: Multiplexing several ERP-120/A's together can result in damaging hardware.

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



PIN	Assignment
1	+24V
2	TR output
3	TR Input
4	0V
5	Shield

Revised: June 18, 2002

Transmitting Characteristics

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

TAGS

				EE/166 Ø50x1 x5		EE/166 Ø30x1x5		FE/32 Ø50x1x5	FE/32 Ø30x1x5	
				Read	Write	Read	Write			
Recommended Range	Sr	mm		75	45	60	35	75	60	
Nominal Range	H	mm		150	90	110	65	150	110	
Zone										
Static	Typ. length at Sr	L	mm	140	95	110	80	140	110	
	Typ. width at Sr	I	mm	90	65	70	50	90	70	
Dyn.	TAG tilt		°							< 30

General Characteristics

Operating Temperature	-25°C to +70°C
Weight	400 g
Protection Rating	IP 65
Packaging	ABS

Electrical Characteristics

Power Supply Voltage	24 VDC
Range of Voltage	21 to 29 VDC (including ripple)
Current Consumption	400 mA

Mounting Hints

The Transceiver ERP120/A can be mounted in a recessed metal cavity if there is free space surrounding it. The minimum metal free clearance can be seen in the figure below:

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

