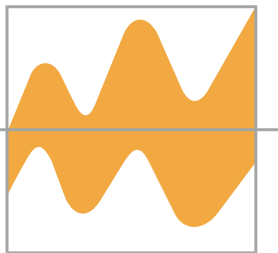


BALOGH



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IDENTIFICATION SYSTEMS

DESCRIPTION

The **ERO 85** transceiver used with a BALOGH control board enables to read/write electronic tags, type OC/OD, OF/OFR, OMA, GIE or dialog communications with another BALOGH transceiver.

ERO 85 : standard version

ERO 85/225 : travel direction perpendicular to standard travel direction

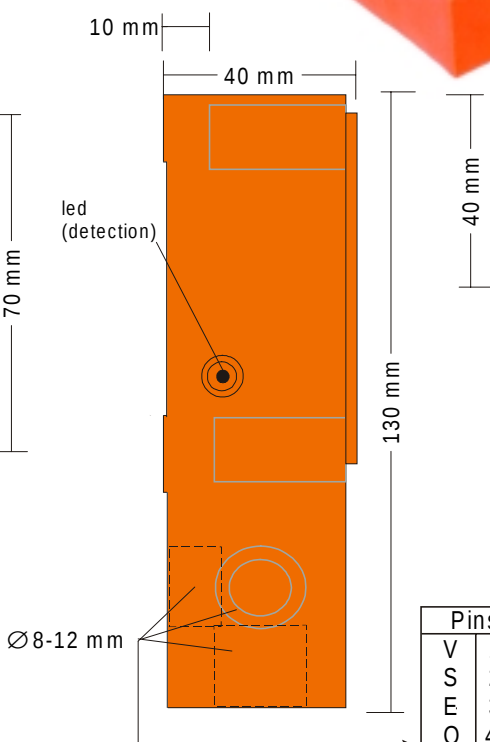
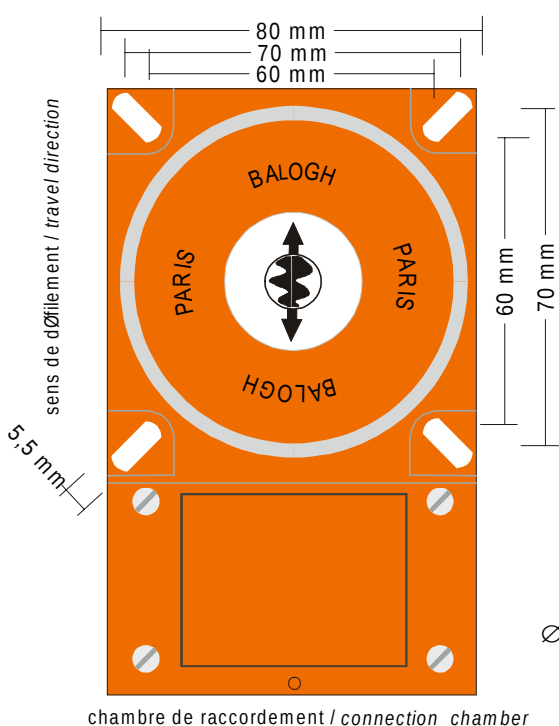
ERO 85/1229 : standard version in a food approved plastic enclosure

ERO 85/A1 : in that case connection is made via an AMPHENOL plug on the smallest side

ERO 85/1192 : stuffed connection chamber and 2 m-long shielded cable.

LAYOUT

The connections between control board has to be done with shielded cable (on the transceiver side the shielding should **not** be connected). The maximum cable length between a transceiver and a control unit is 300 m.



PINOUT:

Pins	Assignment	Color
V	1 +U power supply	brown
S	2 Outlet	green
E	3 Inlet	yellow
O	4 0V power supply	white

TRANSMITTING CHARACTERISTICS

Note : the length of zone LSr is only valid when taking account of mentioned below angular and lateral offsets.

ELECTRONIC TAGS														TR
OF / OFR					OC/OD		OMA / GIE				OMA	GIE	ERO	
71	73	93 83	861	85 56	93	85 56	711	731	851	931 831	861	741	85	

Recommended range	Sr	mm	24	18	27	24	32	32	44	22	18	40	30	36	18	140
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STATIC transmission zone	Nominal range	H	mm	60	45	68	60	80	80	110	55	45	100	75	90	45	350
	Typical length at Sr	L	mm	130	90	150	150	180	160	220		90	200	150	150	92	700
	Typical width at Sr	I	mm	60	50	50	60	55	55	60		50	60	55	85	64	180

DYNAMIC transmission zone	Minimum length at Sr	LSr	mm	105	70	100	120	160	110	160	100	70	150	110	90	64	500
	Maximum lateral offset	DSr	mm	20	13.5	15	12	20	15	18	15	13.5	18	15	15	13.5	70
	Maximum angular offset		°	< 20													

GENERAL CHARACTERISTICS

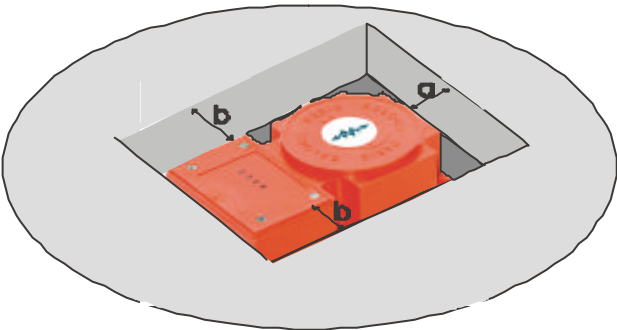
Operating temperature	-25°C to +70°C
Weight	600 g
Protection rating	IP 65
Casing	Rilsan

ELECTRICAL CHARACTERISTICS

Power supply	24 to 48 VDC
Current consumption	150 mA

MOUNTING HINTS

The transceiver ERO 85 can be mounted in a recessed metal cavity if there is a space free of metal. The minimum metal-free clearance surrounding the transceiver is a = b = 30 mm:



To avoid interference between 2 transceivers, there must be a minimum space between them (1,200 mm).

