

## IDENTIFICATION SYSTEMS

R/W heads

# ERO 71

# ERO 71/BM

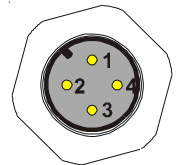
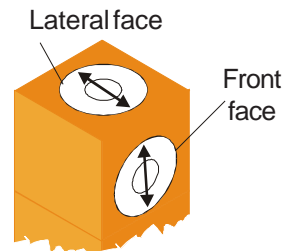
### DESCRIPTION

The ERO 71 is an R/W head intended, when connected to an appropriate Balogh control board, for reading / writing data from / to electronic tags: OMA Series tags (control board suffix: A), GIE Series tags (suffix: E). The tags can pass near either sensing face along the marked direction:

Two models are available; they differ in the type of connection:



ERO 71 fitted with a gland for cable Ø 8 ... 12 mm.



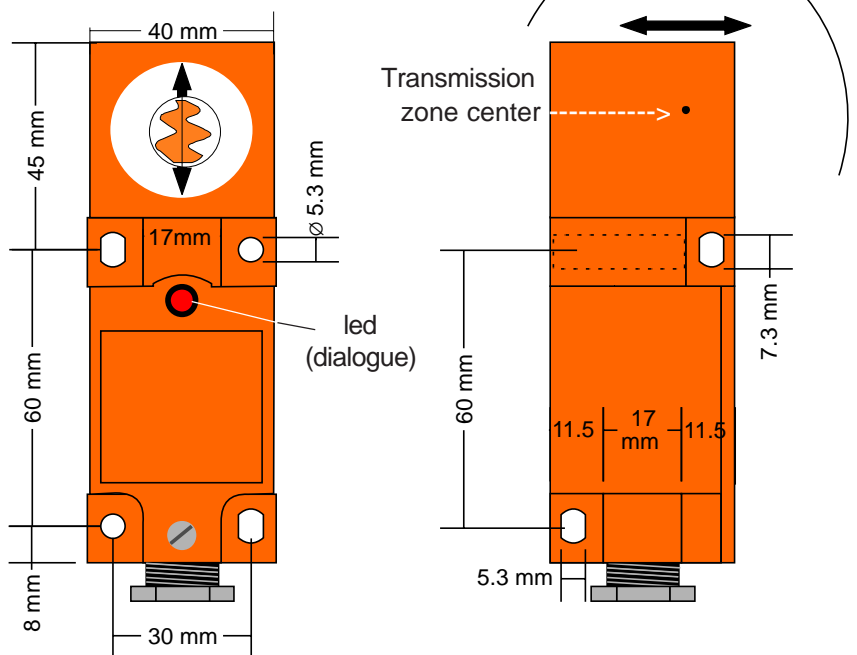
ERO 71/BM fitted with a 4-pin A-coded M12 male metallic socket:

### DATA FOR ASSEMBLY

**Assembly:** using M5 screws length under head > 45 mm.

#### Connection:

Description	ERO71	ERO71/BM
+U power	V	1
Output	S	2
Input	E	3
0 V	O	4
<b>Cordset</b>		
for BI xx	3	3+
other boards	201282	FFMD5/12



ERO 71: unscrew the lid of the wiring chamber, connect in compliance with the marking.

ERO 71/BM: use a cable connector<sup>1)</sup> mating to the socket (e.g. ref. 202 274) and a cable with an overall foil/braid shield: • Max. length: 300 m

- The overall shield must be in circumferential contact to the cable connector **metal** housing.

The table above mentions the 5 m-long cordsets proposed by Balogh.

<sup>1)</sup> use of right-angled cable connector is not advisable as there is no certainty on the actual position of socket keying.

## TRANSMISSION CHARACTERISTICS

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

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

Recommended range	Sr	mm	8	6	9	11	10	8	5	9	8	5	30
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STATIC transmission zone	Nominal range	H	mm	20	16	23	27	25	20	12.5	22	20	12.5	75
	Typical length at Sr	L	mm	60	48	55	70	60	55	36	55	60	36	160
	Typical width at Sr	I	mm	30	25	25	45	30	30	22	30	30	22	60

DYNAMIC transmission zone	Minimum length at Sr	LSr	mm	48	40	45	40	45	50	28	40	50	28	120
	Maximum lateral offset	DSr	mm	10	4	7.5	10	7.5	7.5	4	7.5	7.5	4	15
	Angular offset		°	< 20										

## ELECTRICAL CHARACTERISTICS

Power supply	24 to 48 V
Current consumption	150 mA

## GENERAL CHARACTERISTICS

Operating temperature	-25°C to +70°C
Weight	200 g 240 g for /BM
Protection rating	IP 65
Casing	Rilsan

## ASSEMBLY RECOMMENDATIONS

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

To avoid interference between 2 ERO 71, there must be a minimum space between them:

