

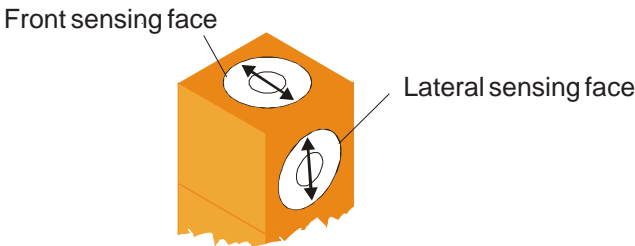
IDENTIFICATION SYSTEMS

R/W head

ERC 71

DESCRIPTION

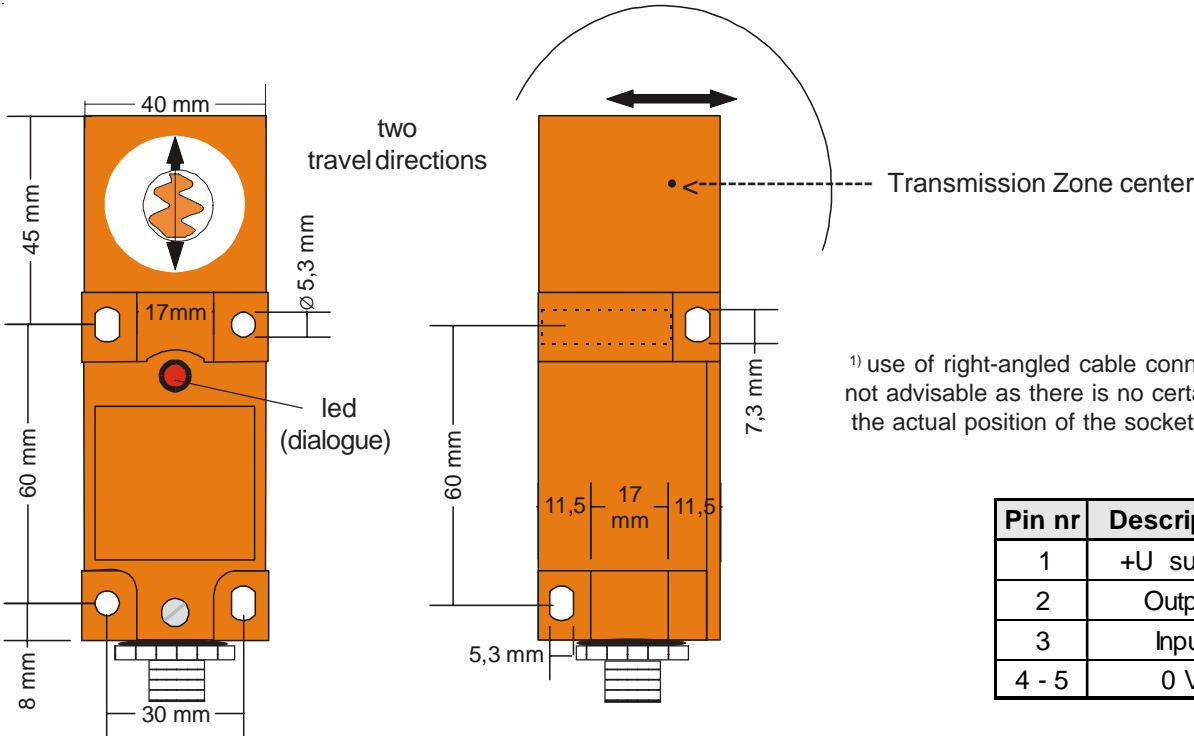
The ERC 71 is an R/W head intended for reading /writing data to/from OMX Series electronic tags; it has to be connected to an appropriate Balogh control board (suffix: X).
The tags can pass near either sensing face along the marked direction:



DATA FOR ASSEMBLY

Connection:

- The ERC 71 is fitted with a 5-pin M12 male metallic connector.
Use an assorted cable connector¹⁾ and a cable with Twin Shielded and Twin Twisted pairs, with or without an overall foil/braid shield, complying with the following:
- Max. length: 50 m.
 - Overall max. capacity between conductors and shield: 14 nF.
 - Input and Output leads must be apart.
 - The shield of either pair must be connected to the pin nr 5.
 - The optional overall shield must be in contact to the cable connector metal housing over 360°.



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

Pin nr	Description
1	+U supply
2	Output
3	Input
4 - 5	0 V

		Tags			
		OMX 931			
	Parameters	MIN	TYP	MAX	Unit
FUNCTIONAL	S _n "nominal" range	25			mm
	S _r recommended range	from S _{min} to 0.4 x S _n			mm
	S _{min} operation lower threshold	3			mm
	LS _r transmission zone length @ S _r max	65			mm
	D _{ét} distances between two tags	100			mm

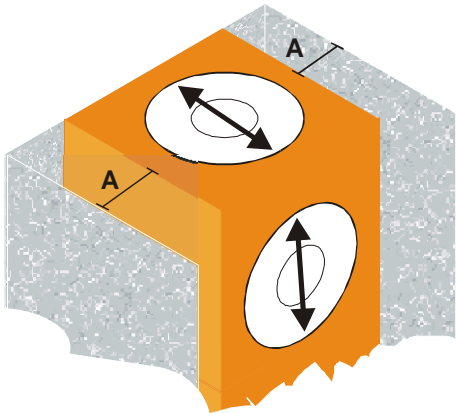
Test conditions:

- ERC and tag in a non metallic environment.
- Max. allowed offsets to have at least the published value for LS_r :
 - Angular: ± 20°
 - Lateral: ± 12 mm.

Electronics	Parameters	MIN	NOM	MAX	Unit
	Ambient temperature	- 25		+70	°C
	Supply direct voltage (ripple included)	21	24	29	V
	Supply current @ 24VDC			90	mA
	Protection against polarity reversal		yes		-
	Transmission frequency		1.5		MHz

General	Casing	PA 12 (30%GF)	-
	Weight	200	g
	Protection rating	IP 65	-

The head is not to be mounted directly in a recessed metal cavity.
A minimum metal-free clearance surrounding the head is required:
A > 20 mm



To avoid interference between two ERC 71, there must be a minimum space between them along the chosen travel direction:

