

# BALOGH



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## ERO-85/QC Transceiver RFID Transceiver

**Industrial RFID Transceiver**

**Orange Product Range**



### Compatible Tags

<b>OMA</b>	Industrial Read-Write Tag Series
<b>GIE</b>	Industrial R/W Enhanced Speed Tag Series
<b>OC</b>	Industrial Fixed Code Read-Only Tags
<b>OF</b>	Industrial Read-Only Tags

### Description

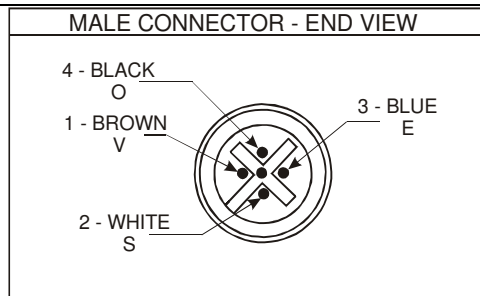
The ERO-85/QC Transmitter/Receiver used with a BALOGH Control Board allows Reading and/or Writing of Electronic TAGS, or for Dialog Communications with other BALOGH Transceivers.

The ERO-85 has an available Quick Connector (QC) to help simplify installation.

### Characteristics

- Power Supply (<10% Ripple) 24 V DC
- Voltage Tolerance -20% +15%
- Max Current Consumption 150 mA
- Min Ambient Temperature -25 °C
- Max Ambient Temperature +70 °C
- Distance Between Transceivers 1200 mm
- IP 65 Rated
- Weight: 600 g
- Rislun Casing
- Polyurethane Potting
- Protected Against Polarity Reversal
- Protected Against Load Short-Circuit

### QC Connector Pin-Out



### QC Connection to Main Board

Terminals	Connections
1	+V DC
2	Output
3	Input
4	0V DC

<b>Tag Compatibility Information Chart</b>							
<b>Tag Type</b>		<b>OMA-711</b>	<b>OMA-731</b>	<b>OMA-831</b>	<b>OMA-851</b>	<b>OMA-931</b>	
Maximum Range		70 mm	52 mm	80 mm	100 mm	80 mm	
Static Transmission Zone	Typical Height at Sr	28 mm	20 mm	32 mm	40 mm	32 mm	
	Typical Length at Sr	140 mm	108 mm	160 mm	200 mm	160 mm	
	Typical Width at Sr	50 mm	52 mm	55 mm	60 mm	55 mm	
Dynamic Transmission Zone	Minimum Length at Sr	90 mm	80 mm	110 mm	150 mm	110 mm	
	Max Lateral Offset	15 mm	13.5 mm	15 mm	18 mm	15 mm	
	Max Angular Offset	20 mm	20 mm	20 mm	20 mm	20 mm	

<b>Tag Compatibility Information Chart</b>							
<b>Tag Type</b>		<b>GIE-711</b>	<b>GIE-731</b>	<b>GIE-831</b>	<b>GIE-851</b>	<b>GIE-931</b>	
Maximum Range		55 mm	45 mm	80 mm	100 mm	80 mm	
Static Transmission Zone	Typical Height at Sr	22 mm	18 mm	32 mm	40 mm	32 mm	
	Typical Length at Sr	140 mm	92 mm	160 mm	200 mm	160 mm	
	Typical Width at Sr	50 mm	64 mm	55 mm	60 mm	55 mm	
Dynamic Transmission Zone	Minimum Length at Sr	100 mm	64 mm	110 mm	150 mm	110 mm	
	Max Lateral Offset	15 mm	13.5 mm	15 mm	18 mm	15 mm	
	Max Angular Offset	20 mm	20 mm	20 mm	20 mm	20 mm	

<b>Tag Compatibility Information Chart</b>							
<b>Tag Type</b>		<b>OC-56</b>	<b>OC-85</b>	<b>OC-93</b>			
Maximum Range		110 mm	80 mm	80 mm			
Static Transmission Zone	Typical Height at Sr	44 mm	32 mm	32 mm			
	Typical Length at Sr	220 mm	160 mm	160 mm			
	Typical Width at Sr	60 mm	55 mm	55 mm			
Dynamic Transmission Zone	Minimum Length at Sr	160 mm	110 mm	110 mm			
	Max Lateral Offset	18 mm	15 mm	15 mm			
	Max Angular Offset	20 mm	20 mm	20 mm			

<b>Tag Compatibility Information Chart</b>							
<b>Tag Type</b>		<b>OF-56</b>	<b>OF-71</b>	<b>OF-73</b>	<b>OF-83</b>	<b>OF-85</b>	<b>OF-861</b>
Maximum Range		80 mm	55 mm	45 mm	67 mm	80 mm	60 mm
Static Transmission Zone	Typical Height at Sr	13 mm	24 mm	18 mm	28 mm	32 mm	24 mm
	Typical Length at Sr	180 mm	120 mm	90 mm	150 mm	180 mm	150 mm
	Typical Width at Sr	55 mm	50 mm	50 mm	50 mm	55 mm	50 mm
Dynamic Transmission Zone	Minimum Length at Sr	160 mm	85 mm	70 mm	100 mm	160 mm	120 mm
	Max Lateral Offset	20 mm	15 mm	13.5 mm	15 mm	20 mm	12 mm
	Max Angular Offset	20 mm	20 mm	20 mm	20 mm	20 mm	20 mm

# Tag Compatibility Information Chart (Cont.)

Tag Type		OF-931				
Maximum Range		68 mm				
Static Transmission Zone	Typical Height at Sr	27 mm				
	Typical Length at Sr	150 mm				
	Typical Width at Sr	50 mm				
Dynamic Transmission Zone	Minimum Length at Sr	100 mm				
	Max Lateral Offset	15 mm				
	Max Angular Offset	20 mm				

# Dimensional Drawing

