



ERO-85/QC Transceiver

Industrial RFID Transceiver

Orange Product Range



Compatible Tags

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

Description

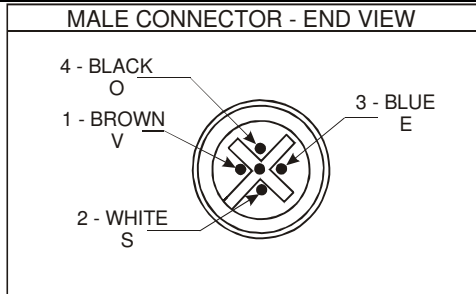
The ERO-85/QC Transmitter/Receiver used with a BALOGH Control Board allows Reading and/or Writing of Electronic TAGS, or for Dialog Communications with other BALOGH Transceivers.

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
- Rilsan 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

Tag Compatibility Information Chart						
Tag Type		OMA-711	OMA-731	OMA-831	OMA-851	OMA-931
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

Tag Compatibility Information Chart						
Tag Type		GIE-711	GIE-731	GIE-831	GIE-851	GIE-931
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

Tag Compatibility Information Chart						
Tag Type		OC-56	OC-85	OC-93		
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		

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

