

# Ballast Car Control

## MAINTENANCE OF WAY

### RADIO REMOTE CONTROLS FOR BALLAST CAR UNLOADING

#### HIGHLIGHTS

- Power-on self-diagnostics
- Push to Operate (PTO) safety bar
- Average response time of less than 60mS

#### FEATURES

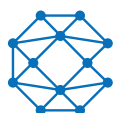
- Synthesized 16 control functions, plus 2 operate (motor starter) ON/OFF
- Toggle controller battery save feature
- Watchdog timers
- Simultaneous control of one ballast car by two operators
- Proven reliability

#### APPLICATIONS

Manually opening and closing ballast car hopper doors requires the operator to be very close to the ballast car which can be hazardous, slow and awkward.

Exposure to silica dust, possible injuries resulting from manual operation of the release levers and walking close to a moving train are just some of the hazards that can be encountered by operators.

By installing radio remote control on the hopper doors, the operator has freedom of movement and can work in a safer, more efficient manner with a better vantage point.





## TECHNICAL DATA AND SPECIFICATIONS

FEATURE	SPECIFICATION
Dimensions (WxDxH)	Approx. 10x5x12" (254x127x305 mm)
Enclosure	Dust and watertight NEMA4 enclosure
Environmental	Approx. -4 to +140 °F ( -20 to +60 °C), RH 0 to 95%, non-condensing
Control Voltage Range	12 VDC standard, 24 VDC and 120 VAC options available
Receiver Frequency	450-470 MHz
Interface Type	Sixteen mechanical relays, normally open contacts, 5 A @ 30 VDC  Toggle OCU featuring an anodized aluminum housing metal-reinforced rubber hand-grip end caps and an internal antenna.
Weight	3.2 lbs (1.4 kg), including battery
Dimensions (WxDxH)	3.75 x 4 x 9.75" (9.5x10x25 cm)
Switch Types	Spring return to center toggles, maintained toggles, pushbuttons and/or rotary switch
Environmental On/Off switch	Outdoors, approx. -22 to +140 °F ( -30 to +60 °C), RH 0 to 95%, non-condensing Toggle standard, keylock optional
Transmitter	450–470 MHz, 10 mW nominal output power

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