

# CROSSING SIGNALS

Our Innovation. Your Advantage.





# WESTERN CULLEN HAYES CROSSING SIGNALS



**Bradken is proud to be the only ARTC Australian-approved supplier of Western Cullen Hayes (WCH) products after obtaining accreditation to supply this equipment. WCH is one of the oldest and most respected manufacturers in the railroad industry and was formed in 1855 as the American Signal Company.**





## Our Business

Bradken has promoted and distributed Western Cullen Hayes (WCH) railroad crossing signal equipment for more than 30 years. Bradken is proud to be the only Australian-approved supplier of WCH products nationally after recently obtaining Type Approval through the Australian Rail Track Corporation (ARTC). Previously Bradken was only able to supply WCH products for installation under a 'grandfather' clause, meaning the parts could only be installed by rail maintainers as replacement parts on existing WCH rail crossings. Now with the Type Approval, WCH components can be fitted as new installations on any ARTC network crossing.

Bradken supplies crossing signals, cantilevers, wheel sensors, bells, terminal and pole boxes, relays, terminal and test switches, derails, track tools, wheel stops, blue flags and circuit controllers.



# CROSSING SIGNALS

Flashing Light Crossing Signals manufactured by Western Cullen Hayes represent the latest in design features. All Type 985-201 12-inch light units and Type 970-201, 8-3/8-inch light units used on our A-479 Crossing Signal and our Model 10 gate Crossing Signal are made of aluminum. The lamp receptacle bracket is positioned to ensure exact focusing of the lamp filament to the parabolic reflector. The filament is also aligned with the side light openings that are fitted with clear plastic discs.

All light units include an integral 1-1/4-inch hub that allows the light to be attached to junction box crossarms using adapter elbows with either threaded fittings on both ends, or threads on one end and a clamp fitting on the other.

Type 960 Junction Box Crossarms used on our crossing signals are made of aluminum and include terminal strips totalling 8 binding posts. The light units are attached to the crossarm by suspension brackets that provide for independent horizontal and vertical alignment of each light.

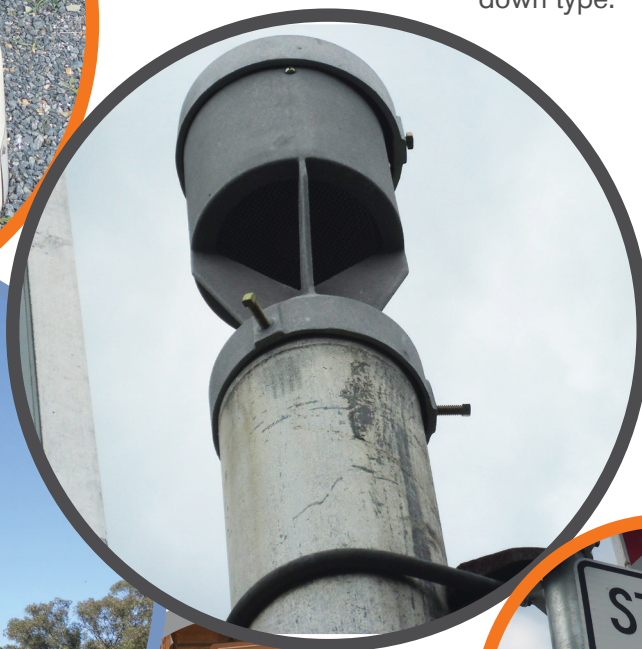
The Type A-479 Crossing Signal is an assembly of flashing light units on a 4 or 5-inch diameter aluminum mast in combination with the appropriate signs and a warning bell or a pinnacle.

A Model 10 Gate Crossing Signal consists of the applicable signs, light units and gate mechanism, mounted on a 5-inch diameter mast with a junction-box type base and a bell pinnacle. Where cantilever-type flashing light signals are required, the gate mechanism and gate arm are frequently mounted on a separate short mast located between the cantilever signal and the track.

Several types of gate mechanisms are available; two and three-power wire models with either vital or non-vital control relays depending on customer requirements.

All of our gate mechanisms can be equipped with an auxiliary sidewalk gate arm. These sidewalk arms may also be purchased in kit form for 3590 Series gate mechanisms.

All mechanisms are provided with spare circuit controller contacts for the induction of gate arm position. Our mechanisms are of the power down type.





# DERAILER EQUIPMENT

Derailers are manufactured by Western Cullen Hayes and are ARTC Type Approved (S 02-1402-148).

The Derail/Wheel Crowder system is designed to address higher speeds, rigid rail vehicles such as locomotives, hazardous materials, steep downgrades and requirement to derail to the inside rail of a curve. The unit is used in conjunction with either a Model EB or Model HB derail. It overlays the existing track structure and can be installed by two people with a shovel and spike maul in two hours or less.

Bradken Offers:

## DERAILS

- Operating Stand
- Connection Rods
- Sliding Hinge and Portable Derails
- Electric lock derail operator (ELDO)

## TRACK TOOLS

- Rail Tongs
- Power Track Drills
- Rail Benders
- Track Lining Scope
- Track Liner

## WHEEL STOPS

## BLUE FLAGS

## OPERATING RODS

## CIRCUIT CONTROLLERS





# GATE CROSSING SIGNAL EQUIPMENT

Bradken Supplies a wide variety of Western Cullen Hayes Flashing Light Crossing Signals equipment. For further information on the listed product below, please contact your local Bradken representative.

BELLS (ELECTRIC) -----

SIGNS -----

SIGNS -----

CROSSARM ASSEMBLIES -----

ROUNDELS -----

TERMINAL AND POLE BOXES: TERMINAL HOUSINGS  
RELAYS: SOLID STATE FLASHERS AND TRANSFORMERS  
TERMINAL AND TEST SWITCHES: TERMINAL STRIPS -----

BREAKAWAY ADAPTERS -----

COUNTER WEIGHTS AND SUPPORT ARMS -----

FLASHING LIGHT CROSSING SIGNAL -----  
GATE ARMS -----



BASES AND FOUNDATIONS -----

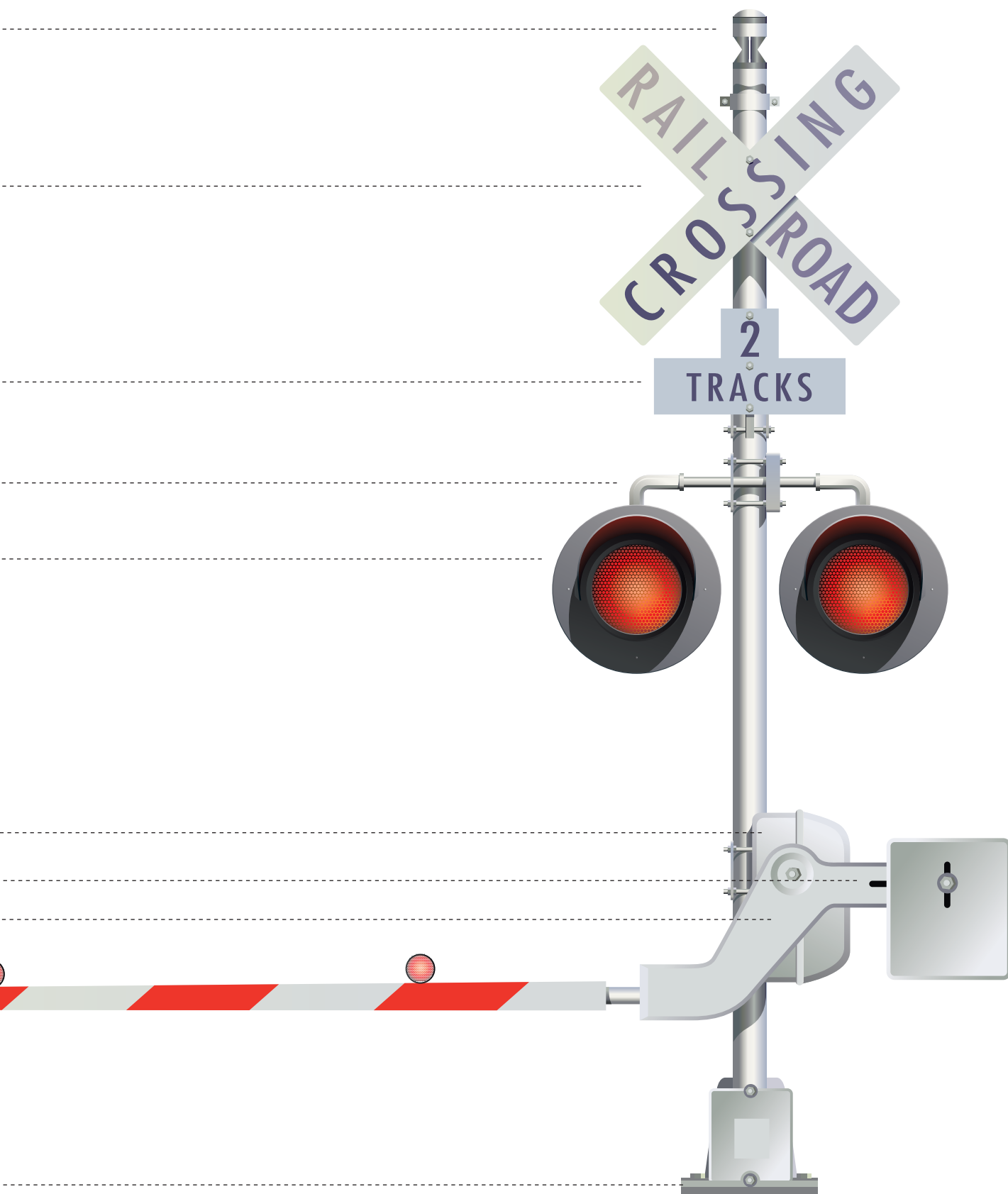


*Also on offer:*

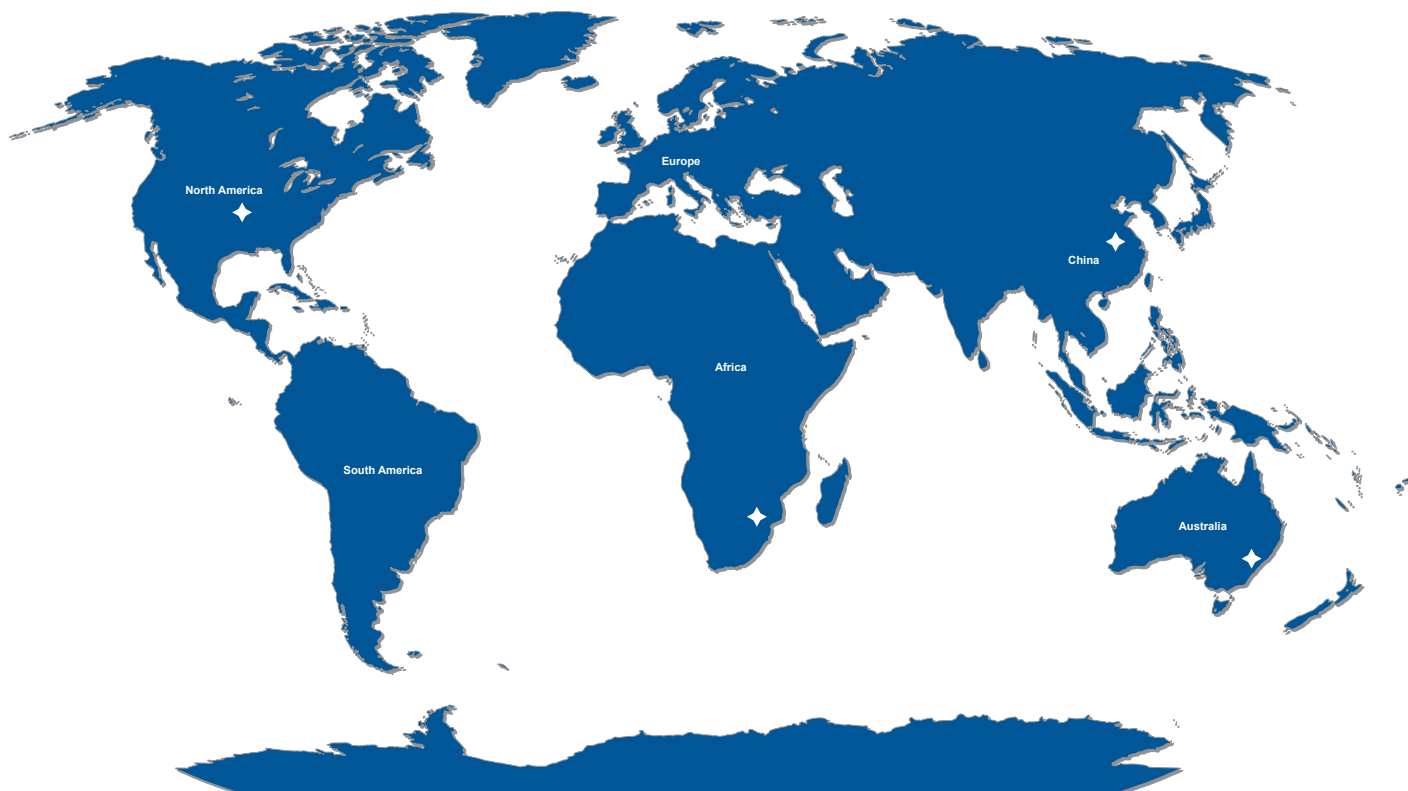
*LIGHT UNITS (NOT PICTURED)*

*HIGH WIND GATE ARM SUPPORTS (NOT PICTURED)*

*SOLID STATE FLASHER (NOT PICTURED)*







## Global Corporate Centre

20 McIntosh Drive, Mayfield West, NSW 2304 Australia  
 T +61 2 4926 8200  
 F +61 2 4926 8201  
 E [bradken@bradken.com](mailto:bradken@bradken.com)

Visit [bradken.com](http://bradken.com) for your  
 local representative.

## Regional Head Offices

### AFRICA

Unit G1 The Palisades  
 39 Kelly Road  
 Jet Park South Africa  
 T +27 11 390 0100  
 F +27 86 615 0876  
 E [africa@bradken.com](mailto:africa@bradken.com)

### AMERICAS

Suite 647, 12200 NW Ambassador Drive  
 Kansas City MO 64163 USA  
 T +1 816 270 0700  
 F +1 816 270 0799  
 E [americas@bradken.com](mailto:americas@bradken.com)

### ASIA

No.120, XuHai Road South  
 Economic Development Zone  
 Xuzhou P.R. China 221131  
 T +86 516 8355 3958  
 F +86 516 8355 3959  
 E [asia@bradken.com](mailto:asia@bradken.com)

### PACIFIC

20 McIntosh Drive,  
 Mayfield West,  
 NSW 2304 Australia  
 T +61 2 4926 8200  
 F +61 2 4926 8201  
 E [pacific@bradken.com](mailto:pacific@bradken.com)

Our Innovation. Your Advantage.

