



## **Rail Products**

# **Signal & Crossing Solutions**

**Our Innovation. Your Advantage.**



# What We Do

We specialise in spare parts and services for rail equipment, freight and signal equipment in addition to ground engaging tools, mining buckets, crawler systems, wear monitoring systems, and service support.



## Registered Trademarks.

All company names, logos, product names, and identifying marks used throughout this publication are the property of their respective trademark owners. They are used for descriptive purposes only and are protected by the relevant laws of the countries in which the trademarks are registered.

We'll work with you to understand your operational challenges and provide the smartest solutions with:



### Experience and Expertise

With over 100 years' experience in the foundry business and with world-class manufacturing facilities located globally, Bradken has the knowledge, expertise and capability to produce fully machined cast iron and steel products from a mass of 0.5 kg (1.1lbs) up to and over 25,000kg (65,000 lbs).



### Safety

Bradken products provide comprehensive safety features to reduce risk during equipment maintenance.



### Reducing Costs and Increasing Productivity

Bradken products have been designed and engineered to optimise operational performance and aim to provide our customers with lowered Total Cost of Ownership (TCO).



### Innovation and Design

Leveraging our expertise and experience in wear materials with our innovative technical teams, Bradken can supply unique and tailored packages to deliver high performing solutions.



### Support Services

Global mining and resources companies partner with Bradken because they know we will leverage our extensive design, engineering and in field support services to solve their specific operational challenges.



### Local Sales and Support Networks

Bradken's global sales and distribution networks supply the world's major mining and industrial regions.



### Sustainability and Environment

Bradken is committed to reducing its impact on the environment through a comprehensive and targeted sustainability plan.



### Equal Opportunities

We value diversity and inclusion in the workplace. We seek to recruit, develop and retain the most talented people from diverse cultures, perspectives, skills and experiences within our workforce

**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
- ✓ Terminal and test switches
- ✓ Relays
- ✓ Derails
- ✓ Track tools
- ✓ Wheel stops
- ✓ Blue flags
- ✓ Circuit controllers

# Crossing Signals



Flashing Light Crossing Signals manufactured by Western Cullen Hayes(WCH) 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

### Other products

- Wheel stops
- Blue flags
- Operating rods
- Circuit controllers

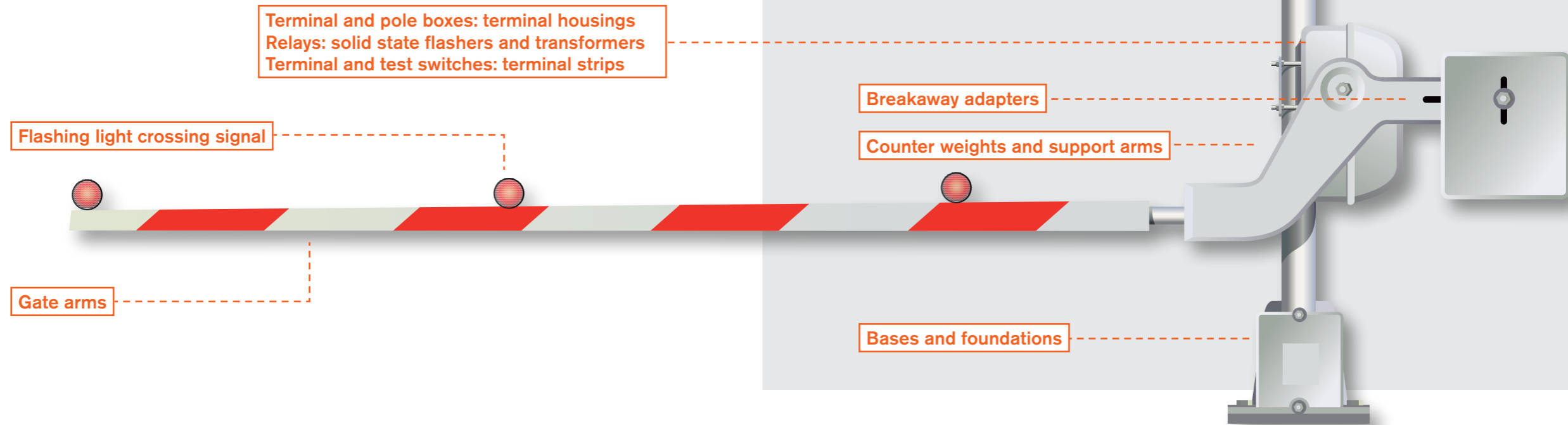
# Gate Crossing Signal Equipment

Bradken Supplies a wide variety of Western Cullen Hayes(WCH) Flashing Light Crossing Signals equipment.

For further information on the listed product below, please contact your local Bradken representative.

## Also on offer

- Light units (not pictured)
- High wind gate arm supports (not pictured)
- Solid state flasher (not pictured)



# Contact Bradken globally to find a solution for your business.



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