



The Picton Ballast Integrity Sensor (BIS) provides real-time monitoring of earth movements including rail ballast, landslides, embankments, bridge scour and sinkholes.

The Ballast Integrity Sensor is comprised of two sensor sections which are sited together & become displaced upon activation.

The sensor can be connected directly to signalling networks to provide instant notification and closures when ground integrity is compromised.

- ✓ Communications Lines
- ✓ Bridges & Abutments
- ✓ Thermal Rail Expansion
- ✓ Aging Infrastructure
- ✓ Dark Territory Rail
- ✓ Water Lines
- ✓ Washouts
- ✓ Landslides
- ✓ Earthquakes
- ✓ Groundwater Changes
- ✓ National Security Infrastructure
- ✓ Hazmat & Passenger Routes
- ✓ Scour

BIS Technical Information

Parameter	Specification
Weight	4kg
Dimensions	460 x 90mm
Connector	Cabled or Rigid
Material	Aluminium (coating options)
Temperature Range	-40 / +85°C
Current Rating	5A
Power Supply	30Vdc / 125Vac
Sensor Trigger	38.1 / 63.5 / 88.9mm
Maximum Sensor Range	101.6mm
Ingress Protection	IP67
Electrical Life	1000,000 Cycles
Mechanical Life	10,000,000 Cycles
Operation Force	230gf
Release Force	20gf
Mounting	Chassis Mount
Actuator Type	Level / Roller
Circuit	SPDT
Switch Function	On-Morm
Termination	Wire

