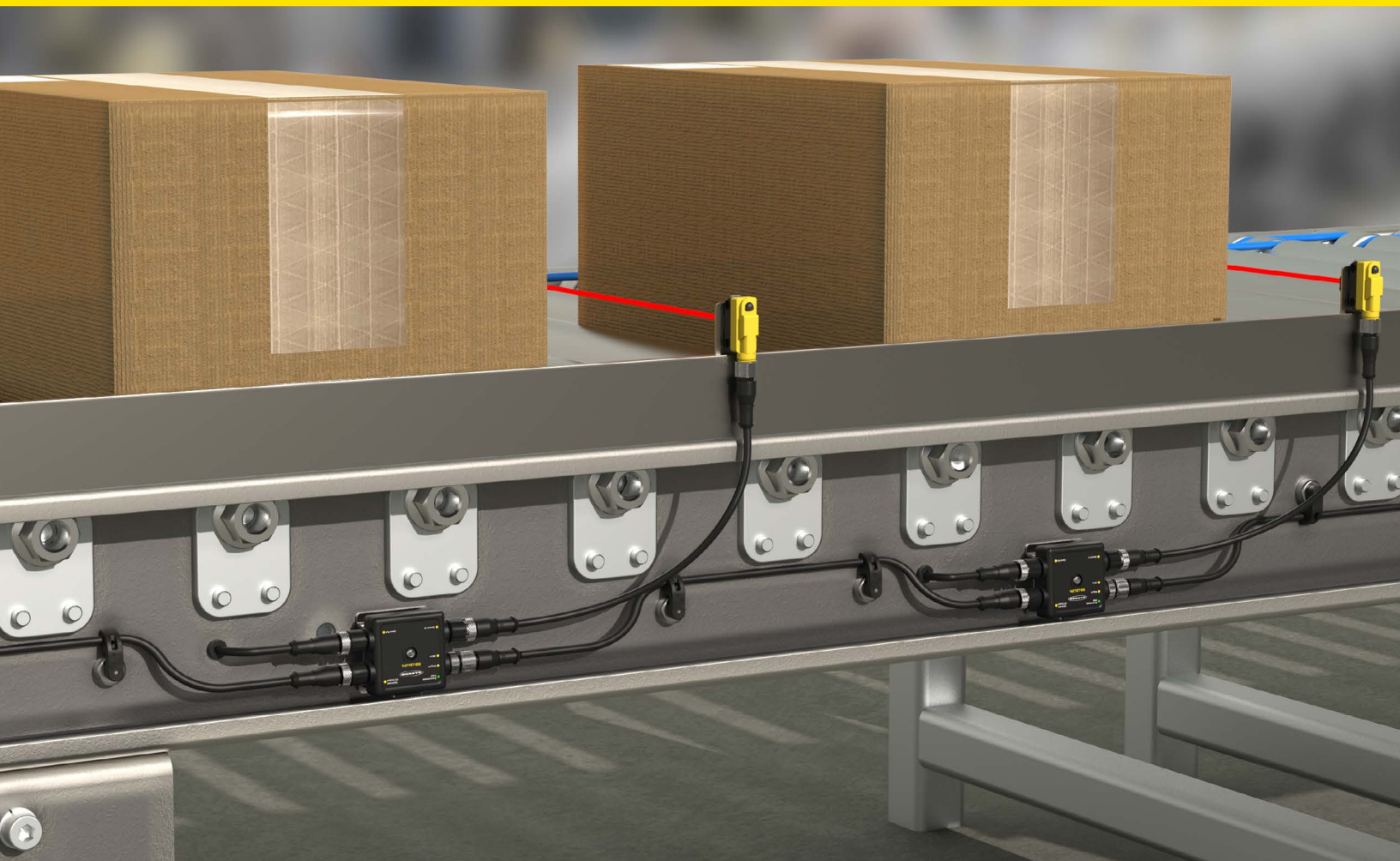


R50 Zero Pressure Accumulation Control Module



Simplify Conveyor Zone Control Right Out of the Box

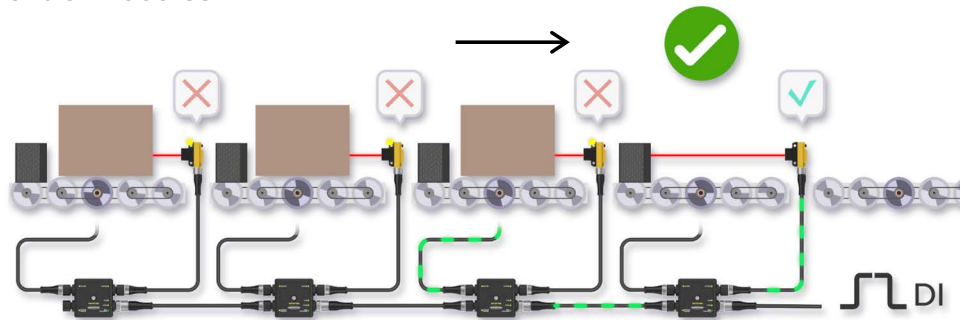
- Compatible with any conveyor zone drive—motor roller, gear motor, air clutch, and other types—that uses a 24 V DC discrete signal to start and stop the conveyor zone
- Two modes
 - Zero Pressure Accumulation mode uses sensors to create independent zones, maintaining gaps between products for gentle handling, mixed object sizes, and merging; selected by driving pin 4
 - Slug Release mode ignores sensor logic, releasing all zones simultaneously to maximize throughput and quickly clear long upstream buffers; selected by driving pin 2
- Plug and play design saves commissioning time, requiring no configuration
- 4-pin M12 connectors install faster than flying leads
- Compact 50 mm size fits into tight spaces along conveyor frames
- LEDs on both sides provide quick, clear diagnostics, allowing block to be mounted in either direction



R50 Zero Pressure Accumulation Control Modules

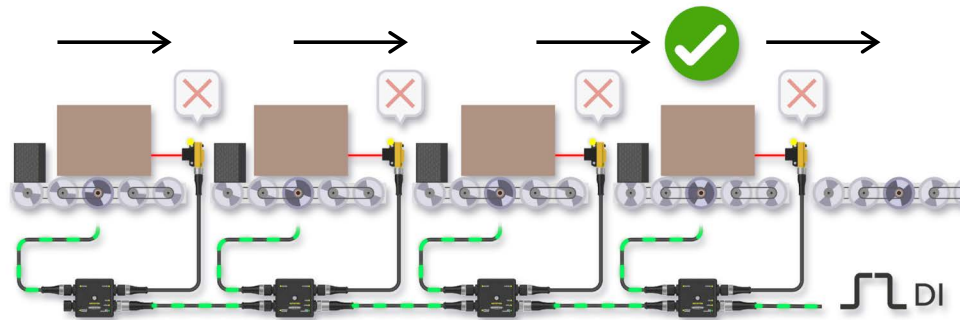
Zero Pressure Accumulation (ZPA) Mode

In ZPA mode, each zone operates independently to maintain gaps between products. A discrete signal tells the first zone when to move. After the sensor is clear, the zone behind it is allowed to move. Then other upstream zones move in turn.



Slug Release Mode

In Slug Release mode, zones are released simultaneously to create a continuous flow of product. A discrete signal tells the first zones when to move and sensor zone control logic is ignored.



Description	Sensor Input	Models
R50 Zero Pressure Accumulation Control Module	Pin 2	R50-LB2-ZPA
	Pin 4	R50-LB4-ZPA

Specifications



Supply Voltage	12 to 30 V DC
Construction	Coupling nut material: Nylon Connector body: PVC translucent black
Operating Conditions	−40 to +70 °C
Environmental Rating	IP65, IP67, IP68
Certifications	CE

Accessories



BWA-M12CAB-MAG
Magnetic Bracket for
M12 Cables



SMBR50
R50 Mounting Bracket



4-Pin M12 Double-Ended
Straight connector models

- BC-M12F4-M12M4-22-2**
2 m (6.5 ft)
- BC-M12F4-M12M4-22-5**
5 m (16.4 ft)
- BC-M12F4-M12M4-22-10**
10 m (32.8 ft)

