

IRYM-16

Hydraulic Switch Machine

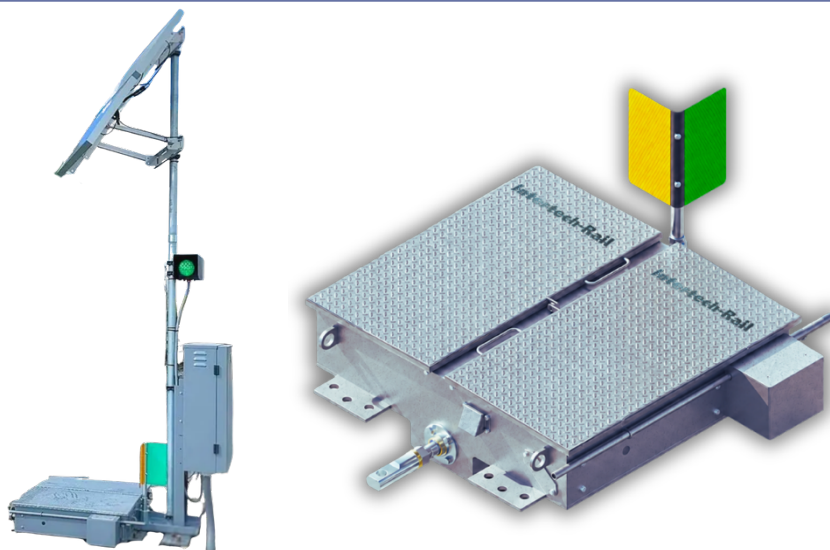
(Ideal for solar-powered yard installations)

Features

- All-in-one handheld RFID reader powered by Android 13 and an Octa-Core 2.0 GHz processor
- Fully solar-powered: 12 VDC / 105 Ah battery charged by solar panel, no external power supply needed
- Spring-hydraulic drive with no rotating parts, maintenance-free in daily operation
- Remote control by VHF radio and DTMF, from the locomotive or the yard
- Integrated processor keeps the switch in a safe position and monitors point position and hydraulic pressure
- Status shown by LED indicators, voice messages or PathFinder® software
- PathFinder® route planning blocks conflicting paths and checks switch positions
- All control, monitoring and detection components in one external box
- Time-stamped logging of every status change
- Designed for more than 1,000,000 cycles

Applications

- Automatic Equipment Identification (AEI)
- Classification and storage yards
- Industrial sidings at plants, mines, ports and terminals
- Remote switches without power on site
- High-frequency switching, where turnouts are thrown many times a day
- Radio-controlled operations, with crews throwing switches from the locomotive



IntertechRail's IRYM-16 is a solar-powered spring-hydraulic switch machine designed for rail yards and remote sidings without power on site. Controlled wirelessly by VHF radio (DTMF) or data radio, it combines a 16.7 kN throw force, a 1.2-second average throw time and integrated point detection in a low-profile, maintenance-free unit. With a 12 VDC / 105 Ah battery, PathFinder® route planning software and a design life of over 1,000,000 cycles, the IRYM-16 delivers reliable, cost-efficient switch automation for yard operations



IRYM-16 Hydraulic Switch Machine

Display

Resolution: 720 x 1440
Size: 5.5 Inch IPS HD

Dimensions & Mounting

Dimensions: 110.5 x 100.3 x 22.2 cm (43.5 x 39.5 x 8.7 in)
Weight: 267 kg (588 lbs)
Mounting: On the sleeper (wood, composite, concrete or steel)
Control Rod: Not required

Power

Battery: 12 VDC / 105 Ah AGM
Charging: Solar Panel or Mains (110/220/230 VAC)
Autonomy: Approx. 300 throws on a full charge

Drive

Type: Spring-Hydraulic
Throw Force: 16.7 kN (3,750 lbf), adjustable

Spring Holding Force: 2,000 lbf, redundant dual springs
Throw Length: 76–152 mm (3–6 in)
Throw Time: 1.2 s (average)
Manual Operation: Hydraulic Hand Pump
Trailable: Up to 20 mph without damage

Wireless Communication

Remote Control: VHF Radio (DTMF) or Data Radio
Local Control: Push Buttons

Monitoring & Safety

Point Detection: Inductive Proximity Sensors
Out-of-Correspondence Detection: Open Point or Broken/Disconnected Rod
Status Indication: LED Indicators, Voice Message, PathFinder® Software
Event Logging: All Status Changes, Time-Stamped
Advanced Functions: Auto-Return, Auto-Line, Auto-Restore

Software

Route Planning: PathFinder® (Licence-Free)
Function: Blocks Conflicting Routes and Checks Switch Positions

Environment

Operating Temperature: -40 °C to +85 °C

Lifespan

No Lubrication Required, Sealed-for-Life Bearings
Designed for 1,000,000+ Cycles

Certification & Warranty

Details available upon request

Intertech·Rail
TRUSTED TRACKS AHEAD

sales@intertechrail.com
www.intertechrail.com

+1 614 302 1900 (USA)

+55 11 985974011 (Brazil)

1501 Venera Ave Suite 340
Coral Gables, FL 33146

Intertech·Rail
WWW.INTERTECHRAIL.COM

