

# MECHANICAL POINTS INDICATOR

The mechanical points indicator is designed to meet the demands for safety and reliability of railway signalling equipment in a crossing loop situation without electricity. ACTOM Signalling manufactures the points indicator. With the exception of on-condition inspection cycles, the mechanism is maintenance free.

The purpose of this type of indicator is to provide train personnel with a positive indication of the points position to be negotiated by the train. The indicator is mounted on a steel cradle fixed to two sleepers adjacent to the turnout.

## Ordering Details

The points indicator is supplied in two forms:

- Two-way points indicator (for crossing loops)
- One way indicator (for sidings)

## Operational Data

The points indicator is coupled to the points set via ground rods and a hand tumbler.

The indicator is split into three sections, namely:

- Base section – housing the detection slides, ramp lever slides and vertical plunger.
- Centre section – housing the connecting rods between the mechanism and indicator disc arms making up the distance section between the base and top sections.
- Top section – houses and supports the indicator disc arms as well as the cranks for the connecting rods from the base and to the disc arms.



## Operation

When the points are operated by the hand tumbler, the indicator ramp lever slide lifts the vertical plunger clear of the detector slides and allows the detector slide to move across as the switch moves to the other end position.

When the movement has been completed and the points are closed i.e. switch to stock, the vertical plunger will drop by means of gravity into the respective detection notch in the detection slide and an all-safe indication will be given.

If the points switchblades are not properly closed to the stock i.e. tolerance of 0-3mm, the detector notch will foul with the plunger preventing indication. The result of this is that both arms will remain in the 'danger position'.

For self-normalising trailable points, the indicator is designed to provide positive indication of the lock of the rail mounted points lock as well as detection of each individual switch to stock position.

## Applications

- Two-way indicator used at crossing loops.
- One-way indicator used at sidings

## SIGNALLING

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