

CONVERGENCE INDICATOR POTENTIOMETER/RESISTANCE SENSOR

INTRODUCTION:

Under Ground excavation results in deformation of opening. NMC potentiometer type convergence indicator helps to measure the convergence between roof & floor.

Featuring

- Features Rugged design
- Light weight
- Simple to install & recover
- Remote reading possible

DESCRIPTION

The potentiometer/resistance sensor based remote convergence indicator consists of two telescoping tubes maintained together by a friction ring which prevents the system from collapsing under its own weight. A potentiometer is housed inside the tube which offers added protection to the measurement system.

The electrical cable exists at the base of the remote convergence indicator and when adequately protected, allows the measurement to take place in very severe environments for long periods of time. Bearing plates and an adjustable studs are used to fix and pre-stress the remote convergence indicator between the roof and floor of the opening.

Due to convergence or divergence, a slider moves on the resistance coil and thus the change in resistance is proportional to the amount of convergence or divergence. The change in resistance can be measured from a safe place by means of portable battery operated readout unit.

SPECIFICATIONS :

Sensor element
Height
Measuring range of sensor
Resolution
Accuracy
Operating temperature

Potentiometer
Upto 5m
Upto 300mm (more if required)
0.01mm
+/- 0.02mm
-40 to 85°C

