

MCTC-PES-E1

Programmable Electronic Systems in Safety Related Applications for Escalators



PESSRAE: Programmable Electronic Systems in Safety Related Applications for Escalators and moving walkway regulation for Chinese Market. In the field of escalators, there is a strong social requirement for high safety to protect users and others from danger, as well as an increasing focus on energy conservation in recent years. In particular, the European safety standard for escalators has been revised as **EN (European Norm) 115-1:2008+A1:2010**, with the addition of a significant number of safety-related regulations.

In China, the safety standard for escalators was also revised as GB 16899-2011, which incorporates almost all of the regulations of EN 115-1:2008+A1:2010 and went into effect in July 2012.

To fulfill the requirement of the Chinese market, Monarch has developed a product (MCTC-PES-E1) to enhance safety that is compliant with GB 16899-2011 standard, including the newly introduced PESSRAE regulation.

MCTC-PES-E1 Comply With

- **GB16899-2011:** Safety Specification of escalator and moving walk produce and installation
- **GB/T20438-2006:** Functional safety of safety-related electrical, electronic and programming electronic control system
- **IEC62061: 2005:** Safety of machinery- Functional safety of safety-related electrical electronic and programming electronic control system
- **ISO22201: 2009:** Lifts (elevator)- Design and development of programmable electronic systems in safety-related applications for lifts (Pressral)
- **EN115-1: 2008+A1: 2010:** Safety of escalations and moving walks

Others Features

- Engineering unit for speed monitor (x.x m/sec)
- Engineering unit braking distance monitor (x.xx m)
- Up to 5 faults log history record
- Pulse interval number monitoring
- Control system states monitoring
- Interface friendly with escalator controller & inverter
- Remote keypad (Optional)
- Long life design (MTTF 15 years)

