

## CKP/IM Mat Information Sheet



### Features

- Custom shapes & sizes
- Non-slip corrugated surface
- Fixed with AE-13 aluminium edging
- Fail-safe operation
- Chemical & abrasion resistant

CKP/IM mats are designed to be used, together with the PRIM control unit, as part of a presence-sensing interlock system to ensure that a machine is not allowed to run unless someone is standing on the mat. The CKP/IM mat can be used as a secondary safety device but **must not** be used as the primary means of protect persons. The system functions in the opposite sense from normal safety mats, i.e. the control unit output relays are only closed (allowing the machine to run) when someone is on the mat, rather than opening (stopping the machine) when someone steps on the mat.

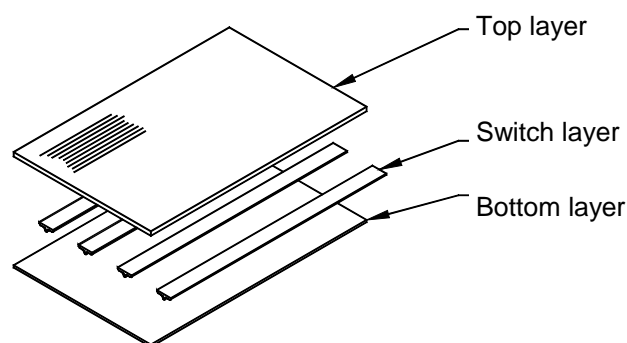
To make this difference obvious the mats are only available with a blue top surface. The top surface material is both weather- and abrasion-resistant. The mat is fixed into place using our AE-13 aluminium edging, providing an anti-trip edge and also securing the mat in the correct position, preventing the operator from moving the mat.

A system consists of the CKP/IM mat sensor and a control unit. This provides fail-safe monitoring of the mat to EN13849, performance level c. The CKP/IM mat has a heavy-duty construction and comprises an array of Tapeswitch ribbon switches sandwiched between two layers of durable PVC material.

### Technical Specification

Colour	Blue
Housing Material	Koroseal
Dimensions	On request
Depth	Approx. 13mm
Actuation force	>300n (30kg) (80mmØ test piece)
Response time	30ms
Inactive area	30mm around outer edge
Protection rating	IP65
Weight	Approx. 16kg/m <sup>2</sup>
Operating temperature	0°C to +50°C
Operating voltage	24V d.c.
Operating current	1A
Power consumption	6VA

### Construction



### Typical Applications:

- Secondary machinery-safety.
- Process/production monitoring.