KES

Mat Switch Design

KES G – M373A

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1. Scope of application

This shall specify the installation of mat switch to the following area to guarantee the operator safety.

1.1 Dangerous area

(1) Where there is the assembly work such as parts assembly and etc. in the installation area for over header carrier equipment

(2) Where there is the assembly work within the dangerous area

In this case, combine with a column switch of standard type for the use.

1.2 Path crossing the dangerous area

(1) Area having no protective facilities in the top-down transverse of the transfer equipment

(2) Area having no sufficient protective facilities in the path between Mfsw or Apsw

1.3 Area having no sufficient protective facilities such as layout structure and work capability

1.4 Industrial robot area

If danger from the collision with the robot is expected when driving an industrial robot, take necessary action to prevent the danger by setting up the safety mat and the safety fence.

2. Setting standard

2.1 Relation between mat switch and equipment

(1) Basic installation method

Installation method for mat switch when the distance between the safety fence and the equipment is at least 800mm

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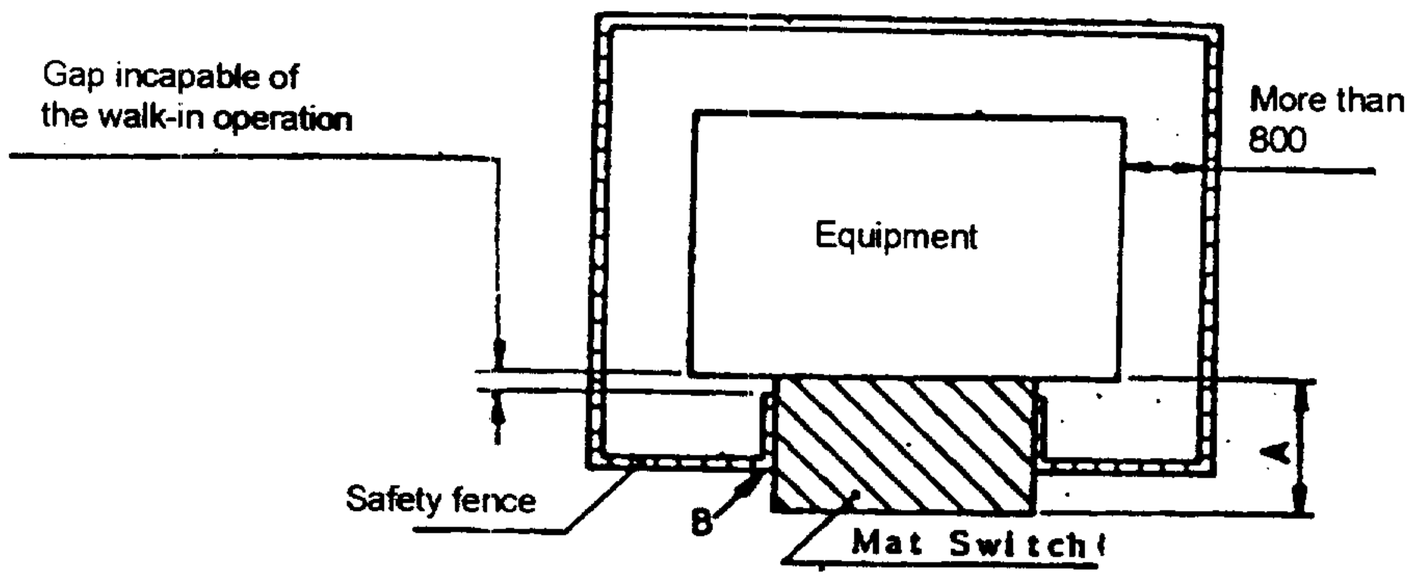
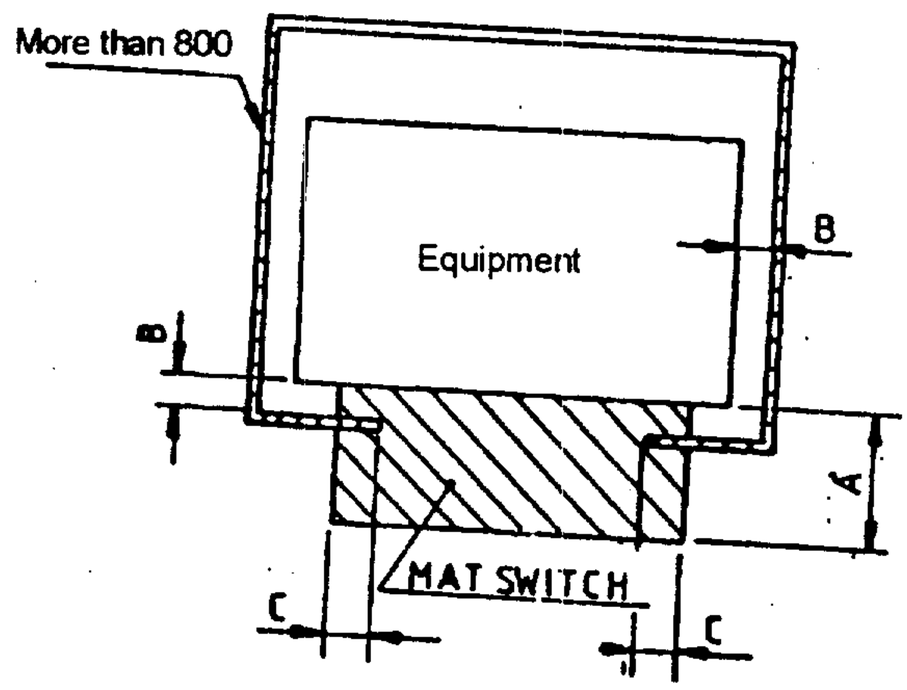


A	Keep the distance from the equipment so that the operator can not touch the equipment.	1050mm ~ 550mm
B	Remove the gap between the safety fence and the mat switch to keep out the hands and the legs of an operator.	

(2) Installation method when the distance between the safety fence and the equipment is short Installation method for mat switch when the distance between the safety fence and the equipment is less than 800mm



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