

Conveyor Direction application

Conveyor Direction application will help you in understanding **positive & negative edge in STEP7 program.**

The application simulates a product on a conveyor belt moving in both directions right and left, the following figures (fig.1, fig.2) shows a conveyor belt that is equipped with two photoelectric barriers (PEB1 and PEB2) that are designed to detect the direction in which a package is moving on the belt. Each photoelectric light barrier functions like a normally open contact.

You should create a program to detect the direction of the box and show the arrow with this direction as shown in fig.1 and fig.2

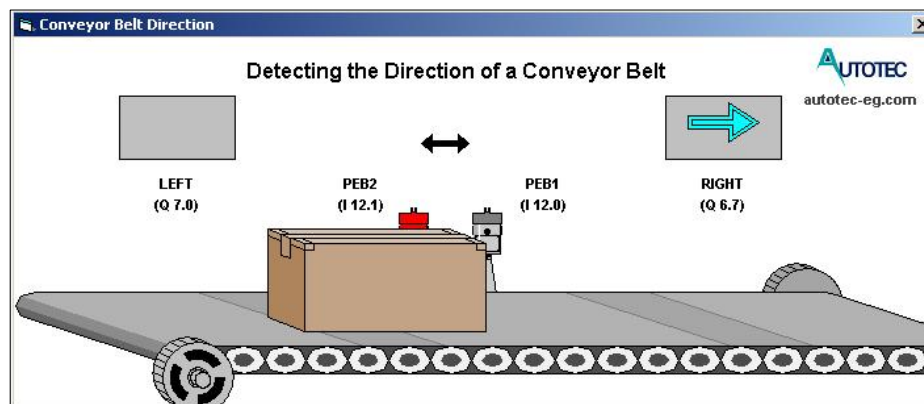


Fig.1

Absolute and symbolic Programming

You can write a program to activate a direction display for the conveyor belt system using absolute values or symbols that represent the various components of the conveyor system. You need to make a symbol table to correlate the symbols you choose with absolute values (see the STEP 7 Online Help).

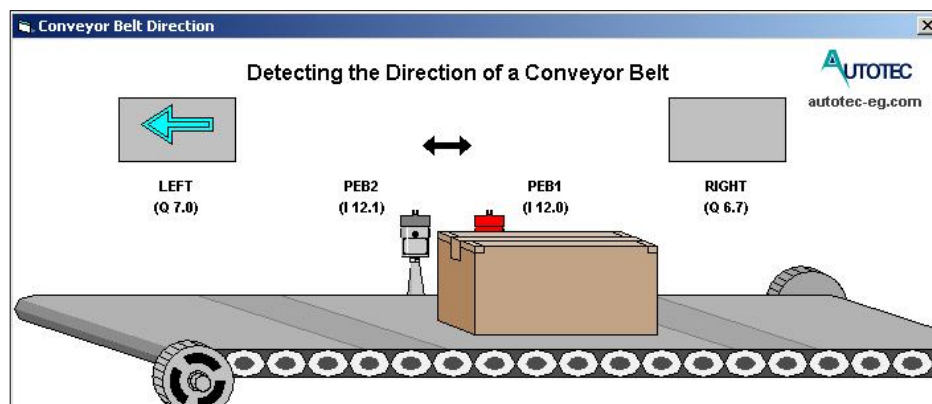


Fig.2