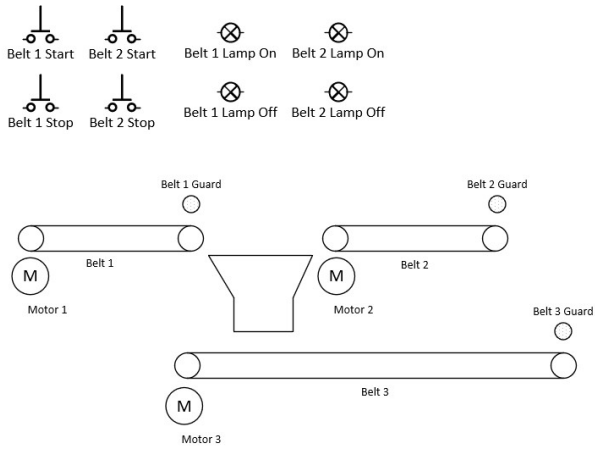


## Three belt conveyors control



Belts 1 & 2 can be started and stopped by pushbuttons. Belt status is displayed by means of respectiv lamp.

Belts 1 & 2 are not allowed to run at the same time.

Belt guards monitor belt motion.

After power on, there should be 3 sec delay in guard monitoring of all belts.

When stop button is pressed, the belts 1 and 2 should switch off with delay of 3 sec. and belt three with delay of 6 sec.

If during the running any belt guard from belt 1 or 2 is broken (signal=False), the respective belt motor should be deenergized immediately, but belt three should dwitch off with delay of 6 sec.

The lamps of belt 1 & 2 show failure as flashing.

```

1 PROGRAM MAIN
2 VAR
3     Belt1Start          : BOOL;
4     Belt2Start          : BOOL;
5     Belt1Stop           : BOOL;
6     Belt2Stop           : BOOL;
7     Belt1Guard          : BOOL;
8     Belt2Guard          : BOOL;
9     Belt3Guard          : BOOL;
10
11     srBelt1LampOn       : SR;
12     srBelt2LampOn       : SR;
13     Belt1LampOn         : BOOL;
14     Belt2LampOn         : BOOL;
15     Belt1LampOff        : BOOL;
16     Belt2LampOff        : BOOL;
17
18     MotorBelt1          : BOOL;
19     MotorBelt2          : BOOL;
20     MotorBelt3          : BOOL;
21
22     Pulse2Hz            : BOOL;
23
24     tonStartPhase       : TON;
25     tonBelt1MonitorTime : TON;
26     tonBelt3MonitorTime : TON;
27     tofDelayOffBelt1    : TOF;
28     tofDelayOffBelt2    : TOF;
29     tofDelayOffBelt3    : TOF;
30
31     tpBlink01           : TP;
32     tpBlink02           : TP;
33 END_VAR

```

