

```
1 PROGRAM InMatrix
2 VAR
3 END_VAR
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//ID:1=XCS 2=PGT 3=VING 4=PGN
ID := 2 ;

//1=XCS
IF ID = 1 THEN iPullLowLocal := PLC_DI5 ; END_IF ;
IF ID = 1 THEN iPullHighLocal := PLC_DI6 ; END_IF ;
IF ID = 1 THEN iTotSlow := PLC_DI7 ; END_IF ;
IF ID = 1 THEN iTotFast := PLC_DI8 ; END_IF ;
IF ID = 1 THEN iPullLow := PLC_DI9 ; END_IF ;
IF ID = 1 THEN iPullHigh := PLC_DI10 ; END_IF ;
IF ID = 1 THEN IF PLC_DI4 = TRUE OR PLC_DI11 = TRUE THEN iWirecut := TRUE ; ELSE iWirecut := FALSE ; END_IF ; END_IF ;
IF ID = 1 THEN iPullEN := PLC_DI12 ; END_IF ;
IF ID = 1 THEN iRightWinchEnable := PLC_DI13 ; END_IF ;
IF ID = 1 THEN iAC230V := PLC_DI3 ; END_IF ;
IF ID = 1 THEN iPullForce := PLC_AI0 ; END_IF ;
IF ID = 1 THEN iBMS_SOC := PLC_AI1 ; END_IF ;
IF ID = 1 THEN iPotMeter := 10000 ; END_IF ;
IF ID = 1 THEN iActVoltage := ATV900L_Voltage ; END_IF ;

IF ID = 1 THEN iDrumReadyL := ATV900L_StatusReady ; END_IF ;
IF ID = 1 THEN iDrumRUNL := ATV900L_FWD ; END_IF ;
IF ID = 1 THEN iHomeSensorL := ATV900L_DI4 ; END_IF ;
IF ID = 1 THEN iSledErrorL := ATV900L_DI5 ; END_IF ;
IF ID = 1 THEN iEncoderSpeedL := ATV900L_EncoderSpeed ; END_IF ;
IF ID = 1 THEN iEncoderRawL := ATV900L_EncoderValue ; END_IF ;

//2=PGT
IF ID = 2 THEN iPullLowLocal := PLC_DI5 ; END_IF ;
IF ID = 2 THEN iPullHighLocal := PLC_DI6 ; END_IF ;
IF ID = 2 THEN iTotSlow := PLC_DI7 ; END_IF ;
IF ID = 2 THEN iTotFast := PLC_DI8 ; END_IF ;
IF ID = 2 THEN iPullLow := PLC_DI9 ; END_IF ;
IF ID = 2 THEN iPullHigh := PLC_DI10 ; END_IF ;
IF ID = 2 THEN IF PLC_DI4 = TRUE OR PLC_DI11 = TRUE THEN iWirecut := TRUE ; ELSE iWirecut := FALSE ; END_IF ; END_IF ;
IF ID = 2 THEN iPullEN := PLC_DI12 ; END_IF ;
IF ID = 2 THEN iRightWinchEnable := PLC_DI13 ; END_IF ;
IF ID = 2 THEN iAC230V := ATV71L_DI3 ; END_IF ;
IF ID = 2 THEN iPullForce := PLC_AI0 ; END_IF ;
IF ID = 2 THEN iBMS_SOC := PLC_AI1 ; END_IF ;
IF ID = 2 THEN iPotMeter := ATV71L_AI1 ; END_IF ;
IF ID = 2 THEN iActVoltage := ATV71L_Voltage ; END_IF ;

IF ID = 2 THEN iDrumReadyL := ATV71L_StatusReady ; END_IF ;
IF ID = 2 THEN iDrumRUNL := ATV71L_FWD ; END_IF ;
IF ID = 2 THEN iHomeSensorL := ATV71L_DI4 ; END_IF ;
IF ID = 2 THEN iSledErrorL := ATV71L_DI5 ; END_IF ;
IF ID = 2 THEN iEncoderSpeedL := ATV71L_EncoderSpeed ; END_IF ;
IF ID = 2 THEN iEncoderRawL := ATV71L_EncoderValue ; END_IF ;
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