Totally Inte	grated
Automation	Porta

## Program blocks / 02\_Controller

## On-Off [FB12]

On-Off Properties								
General								
Name	On-Off	Number	12	Туре	FB	Language	SCL	
Numbering	Automatic							
Information								
Title		Author		Comment		Family		
Version	0.1	User-defined ID						

Name	Data type	Default value	Retain
<b>▼</b> Input			
SetPoint	Real	0.0	Non-retain
Hysteresis	Real	0.0	Non-retain
PV	Real	0.0	Non-retain
<b>▼</b> Output			
MV	Real	0.0	Non-retain
InOut			
<b>▼</b> Static			
UpperLimit	Real	0.0	Non-retain
LowerLimit	Real	0.0	Non-retain
Temp			
Constant			

```
0001 #UpperLimit := #SetPoint + #Hysteresis / 2;
0002 #LowerLimit := #SetPoint - #Hysteresis / 2;
0003
0004 IF #PV > #UpperLimit THEN
0005 \#MV := -10.0;
0006 IF #PV = #LowerLimit THEN
0007
       #MV := 0.0;
0008 END_IF;
0009 END_IF;
0010
0011
0012 IF #PV < #LowerLimit THEN
0013 #MV := 10.0;
0014
     IF #PV = #UpperLimit THEN
0015
0016
      #MV := 0.0;
0017 END_IF;
0018 END_IF;
```