

Totally Integrated Automation Portal		
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## FB\_Cyl\_Double [FB1]

### FB\_Cyl\_Double Properties

#### General

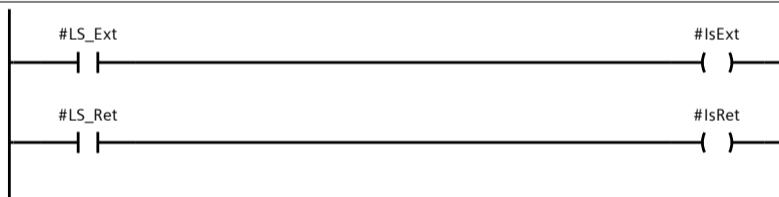
Name	FB_Cyl_Double	Number	1	Type	FB	Language	LAD
Numbering	Automatic						

#### Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

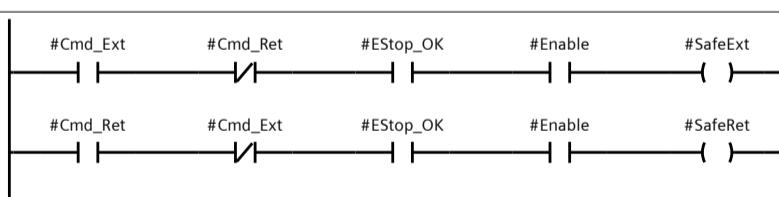
Name	Data type	Default value	Retain
<b>▼ Input</b>			
Cmd_Ext	Bool	false	Non-retain
Cmd_Ret	Bool	false	Non-retain
LS_Ext	Bool	false	Non-retain
LS_Ret	Bool	false	Non-retain
EStop_OK	Bool	false	Non-retain
Enable	Bool	false	Non-retain
tMove	Time	T#3s	Non-retain
Reset	Bool	false	Non-retain
<b>▼ Output</b>			
Out_Ext	Bool	false	Non-retain
Out_Ret	Bool	false	Non-retain
IsExt	Bool	false	Non-retain
IsRet	Bool	false	Non-retain
Fault	Bool	false	Non-retain
FaultCode	USInt	0	Non-retain
InOut			
<b>▼ Static</b>			
SafeExt	Bool	false	Non-retain
SafeRet	Bool	false	Non-retain
Fault_i	Bool	false	Non-retain
TON_Move	TON_TIME		Non-retain
Temp			
Constant			

### Network 1: States (Sensor Mirroring)



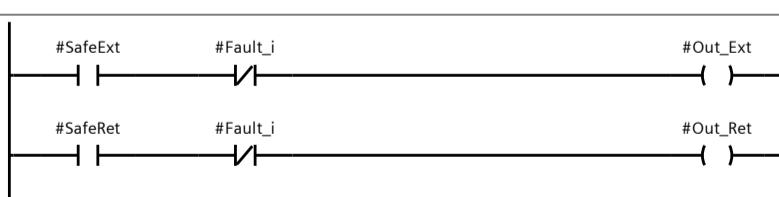
### Network 2: Safe Commands (Interlocks & Safety Logic)

Mutual exclusion enforced for Extend/Retract. Commands are only permitted if the Emergency Stop is released and the Global Enable Key is active

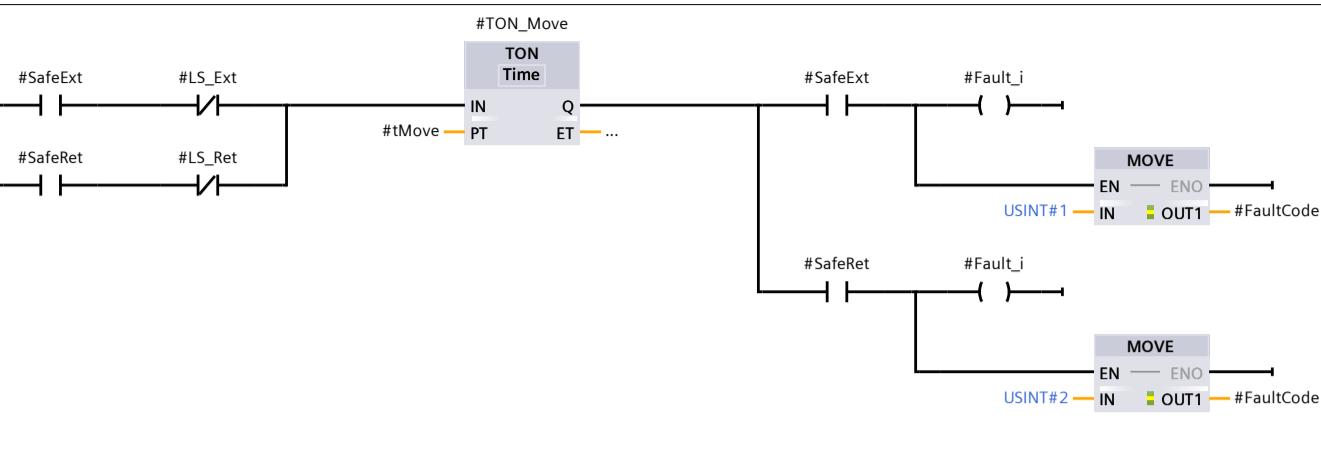


### Network 3: Valve Outputs (Fault-Inhibited)

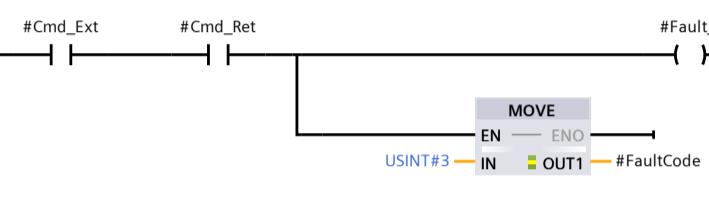
In the event of a Fault, all power to the valves is isolated/cut off



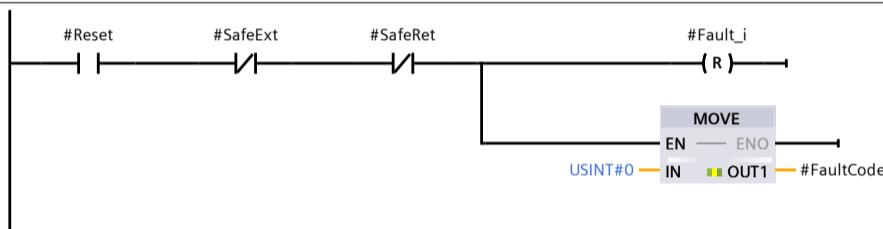
### Network 4: Movement Watchdog (TON)



Network 4: Safe extension logic



Network 5: Invalid command



Network 6: Fault reset



Network 7: Mapping Auxiliaries to Outputs