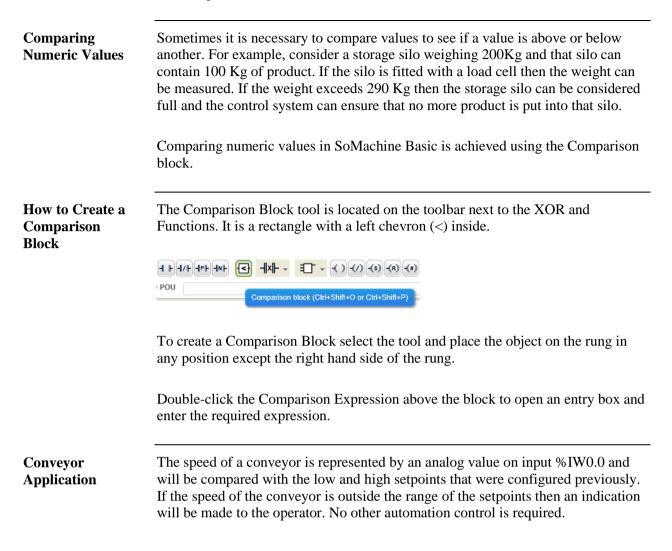
The Comparison Block



Exercise - Comparing With the Setpoints

Learning Outcomes	By the completion of this exercise you will:Be able to use the Comparison block								
	1 Create the rungs for comparing the analog value.								
	i.	Create two new rungs in the Speed Monitoring POU.							
	ii.	Rename these rungs VS High and VS Low							
	2 Program the rung to compare with the high setpoint								
	i.	 Place a contact at the start of the rung and assign it to address %M100. The comparison only needs to be done when the conveyor is running. Select the Comparison Block tool and place the block next to the contact. Click the Operation Expression above the Operation block and enter the expression %IW0.0 > %MW1. Add a coil to the rung and assign it to address %M121. 							
	ii.								
	iii.								
	iv.								
	The completed rung should look like this								
C		1_SPD < VS_HL_SP W0.0 < %MV1 <							

3 Program the rung to compare the low setpoint.

i. Program the Low SP rung with the following objects and the expression **%IW0.0 < %MW2**

Ladder •	Conveyor RUN_RE %M100	C1_SPD < VS_LO_SP %IWD.0 < %MW2		-	-	-	-	-	-	Variable s VS_LOW %M122	
										. 0.	

4 Save the application.

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