

Bpr

%Bpr function

Old name	%BprB													
Function	The function implements a two-position controller. Result is a value of Boolean type.													
Declaration	<pre>B00L %Bpr(REAL in RV, REAL in IV, REAL in DeadBand, REAL in Hysteresis, B00L in OO/CO)</pre>													
Parameters	<table><tr><td>RV</td><td>Required value.</td></tr><tr><td>IV</td><td>Input value.</td></tr><tr><td>DeadBand</td><td>Dead band.</td></tr><tr><td>Hysteresis</td><td>Hysteresis.</td></tr><tr><td>OO</td><td>Opening output.</td></tr><tr><td>CO</td><td>Closing output.</td></tr></table>		RV	Required value.	IV	Input value.	DeadBand	Dead band.	Hysteresis	Hysteresis.	OO	Opening output.	CO	Closing output.
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Note	Regulation is executed according to the left part of the figure (OO/CO = @00) or according to the right part of the figure (OO/CO = @C0). Parameters: - DeadBand = AC (>0) - real value - Hysteresis = BC (>0) - real value Input variables: - IV (input value) - real value - RV (required value) - real value (constant or continuous signal) Output variables: - OO (opening output) - value of Boolean type - CO (closing output) - value of Boolean type Function: - State1: IV <= RV - AD, then OO=1 and CO=0 - State2: RV - AD < IV < RV - AB, then OO is not changing and CO=0 - State3: RV - AB <= IV <= RV + AB, then OO=CO=0 - State4: RV + AB < IV < RV + AD, then OO=0 and CO is not changing - State5: RV + AD <= IV, then OO=0 and CO=1													



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- [Function arguments - types](#)