

Bpr

%Bpr function

Old name	%BprB														
Function	The function implements a two-position controller. Result is a value of Boolean type.														
Declaration	<pre>BOOL %Bpr(REAL in RV, REAL in IV, REAL in DeadBand, REAL in Hysteresis, BOOL 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.
RV	Required value.														
IV	Input value.														
DeadBand	Dead band.														
Hysteresis	Hysteresis.														
OO	Opening output.														
CO	Closing output.														
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														



Related pages:

[Implemented functions](#)
[Function arguments - types](#)