

## Sommario

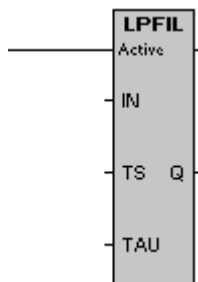
<b><i>LPFIL ( First Order Low Pass Filter )</i></b> .....	<b>3</b>
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## LPFIL ( First Order Low Pass Filter )

<b>Function name</b>	LPFIL_010
<b>Function version</b>	1.0
<b>Function state</b>	stable
<b>Compatibility with IEC61131-3</b>	not compatible

Graphic symbol :



Input / Output :

Name	Belonging Group	Access	Types of data	Description
Active	Left Power Flow			State of activation/deactivation filter intervention
IN	Normal	W , RW	F , B , W , L , S	Variable to filter
TS	Normal	W , RW	F , B , W , L , S	Sample time filter
TAU	Normal	W , RW	F , B , W , L , S	Tau filter
Q	Normal	W , RW	F , B , W , L , S	Filtered value

Description :

The function block LPFIL is used to obtain a first order low pass filter. If the input Active (power flow) is ON in Q you'll have the filtered value of IN, otherwise you'll have the value of direct IN beyond the loading of the filter. IN must have values comprised between -32768 and +32767. The time constant of the filter is defined in the input TAU (in ms). Suppose to start from an input value of zero, the output Q of the filter will get a value of 63% of the input after the time TAU.

The function block LPFIL contains a timer inside make the filter work at each sample time. This sample time is set through the input TS (in ms).

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