

## NeutronDetector Tango Cpp Class

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### **NeutronDetector Class Identification : NeutronDetector Class Inheritance :**

Contact	: at null - null	○ <a href="#">Tango::DeviceImpl</a>
Class Family	:	■ NeutronDetector
Platform	:	
Bus	:	
Manufacturer	:	
Manufacturer ref.	:	

### **NeutronDetector Class Description :**

This is the neutron detector abstract class for the salsa detector. In its initial version it will define only an attribute for the counts. Future versions will support more attributes and commands specific to neutron detectors.

## NeutronDetector Properties :

There is no class properties

There is no device properties

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NeutronDetector Class Commands				
Name	Input type	Output type	Level	Description
<a href="#">State</a>	DEV_VOID	DEV_STATE	OPERATOR	This command gets the device state (stored in its <i>device_state</i> data member) and returns it to the caller.
<a href="#">Status</a>	DEV_VOID	CONST_DEV_STRING	OPERATOR	This command gets the device status (stored in its <i>device_status</i> data member) and returns it to the caller.

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## Command State :

This command gets the device state (stored in its *device\_state* data member) and returns it to the caller.

State Definition		
Input Argument	Tango::DEV_VOID	none.
Output Argument	Tango::DEV_STATE	State Code
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	true	..
Polling Period	Not polled	..

Command allowed for	All states	..

### **Command Status :**

This command gets the device status (stored in its *device\_status* data member) and returns it to the caller.

<b>Status Definition</b>		
Input Argument	Tango::DEV_VOID	none.
Output Argument	Tango::CONST_DEV_STRING	Status description
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	true	..
Polling Period	Not polled	..
Command allowed for	All states	..

<b>NeutronDetector Class Attributes</b>							
<b>Name</b>	<b>Inherited</b>	<b>Abstract</b>	<b>Attr. type</b>	<b>R/W type</b>	<b>Data type</b>	<b>Level</b>	<b>Description</b>
<a href="#">Counts</a>	null	true	Image	READ	Tango::DEV_BOOLEAN	OPERATOR	detector counts

**There is no dynamic attribute defined.**

## Attribute Counts :

detector counts

Attribute Definition	
Attribute Type	Image ( 1024 x 1024 )
R/W Type	READ
Data Type	Tango::DEV_BOOLEAN
Display Level	OPERATOR
Inherited	null
Abstract	true
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states

Attribute Properties	
label	counts
unit	detector units
standard unit	detector units
display unit	detector units
format	%6d
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Attribute Event Criteria	
Periodic	Not set
Relative Change	Not set
Absolute Change	Not set
Archive Periodic	Not set
Archive Relative Change	Not set
Archive Absolute Change	Not set
Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	Not set

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**There is no state defined**