

OmsMaxV Tango Cpp Class

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OmsMaxV Class Identification :

Contact : at null - null
 Class Family :
 Platform :
 Bus :
 Manufacturer :
 Manufacturer ref. :

OmsMaxV Class Inheritance :

- [Tango::DeviceImpl](#)
 - OmsMaxV

OmsMaxV Class Description :

Pro-Dex/OMS servo motor controller

OmsMaxV Properties :

There is no class properties

| Device Properties | | | |
|---------------------|--|--------|---------------|
| Name | Description | Type | Default Value |
| Base | VME card base address | int | 16777216 |
| Channel | Channel number | int | 0 |
| Type | Motor type. 0 -> Stepper motor 1 -> Servo motor 2 -> Stepper motor with encoder | short | 1 |
| IgnoreLimitSwitches | set to 1: the server will ignore any limit switch signals, so you can move a motor with no switches connected set to 0: the server will honour limit switch signals | int | 0 |
| InvertParkingLogic | 0 means the Parking function is active when the Auxiliary bit is 1 1 means the Parking function is active when the Auxiliary bit is 0 | short | 0 |
| HomeLogic | Defines the home logic (reference mark). Format is [Stepper home signal][Encoder reference][Encoder A][Encoder B]. See MaxV manual for more information. | String | 1110 |

| OmsMaxV Class Commands | | | | |
|-----------------------------------|------------|------------------|----------|--|
| Name | Input type | Output type | Level | Description |
| State | 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. |
| Status | 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. |
| AbortMove | DEV_VOID | DEV_SHORT | OPERATOR | Aborts move |
| CheckMove | DEV_VOID | DEV_LONG | OPERATOR | The function returns 1 if the motor is moving |
| LoadPosition | DEV_LONG | DEV_SHORT | OPERATOR | None. |
| LoadPositionUnits | DEV_FLOAT | DEV_VOID | OPERATOR | Set the current position in user units |
| MoveAbsolute | DEV_DOUBLE | DEV_LONG | OPERATOR | None. |
| MoveAbsoluteUnits | DEV_FLOAT | DEV_VOID | OPERATOR | Move to an absolute position in user units |
| MoveHome | DEV_VOID | DEV_LONG | OPERATOR | Homes the motor automatically. If no reference mark is found in either direction, it will generate an error. |
| MoveHomePositive | DEV_VOID | DEV_VOID | OPERATOR | None. |
| ResetMotor | DEV_VOID | DEV_LONG | OPERATOR | Reset the motor |
| GetBoardInfo | DEV_VOID | DEV_STRING | OPERATOR | None. |
| WriteRead | DEV_STRING | DEV_STRING | OPERATOR | None. |

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.

| Status Definition | | |
|-------------------|-------------------------|--------------------|
| 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 | .. |

Command AbortMove :

Aborts move

| AbortMove Definition | | |
|----------------------|------------------|-------------------|
| Input Argument | Tango::DEV_VOID | |
| Output Argument | Tango::DEV_SHORT | Completion status |
| DisplayLevel | OPERATOR | .. |
| Inherited | false | .. |
| Abstract | false | .. |
| Polling Period | Not polled | .. |
| | | |
| Command allowed for | All states | .. |

Command CheckMove :

The function returns 1 if the motor is moving

| CheckMove Definition | | |
|----------------------|-----------------|--------------|
| Input Argument | Tango::DEV_VOID | |
| Output Argument | Tango::DEV_LONG | return value |
| DisplayLevel | OPERATOR | .. |
| Inherited | false | .. |
| Abstract | false | .. |
| Polling Period | Not polled | .. |
| | | |
| Command allowed for | All states | .. |

Command LoadPosition :

| LoadPosition Definition | | |
|--------------------------------|------------------|--------------------------------------|
| Input Argument | Tango::DEV_LONG | Position to load as current position |
| Output Argument | Tango::DEV_SHORT | Completion status |
| DisplayLevel | OPERATOR | .. |
| Inherited | false | .. |
| Abstract | false | .. |
| Polling Period | Not polled | .. |
| | | |
| Command allowed for | All states | .. |

Command LoadPositionUnits :

Set the current position in user units

| LoadPositionUnits Definition | | |
|-------------------------------------|------------------|----|
| Input Argument | Tango::DEV_FLOAT | |
| Output Argument | Tango::DEV_VOID | |
| DisplayLevel | OPERATOR | .. |
| Inherited | false | .. |
| Abstract | false | .. |
| Polling Period | Not polled | .. |
| | | |
| Command allowed for | All states | .. |

Command MoveAbsolute :

| MoveAbsolute Definition | | |
|--------------------------------|-------------------|-----------------------------|
| Input Argument | Tango::DEV_DOUBLE | Absolute position in counts |
| Output Argument | Tango::DEV_LONG | Completion status |
| DisplayLevel | OPERATOR | .. |
| Inherited | false | .. |
| Abstract | false | .. |
| Polling Period | Not polled | .. |
| | | |
| Command allowed for | All states | .. |

Command MoveAbsoluteUnits :

Move to an absolute position in user units

| MoveAbsoluteUnits Definition | | |
|------------------------------|------------------|----|
| Input Argument | Tango::DEV_FLOAT | |
| Output Argument | Tango::DEV_VOID | |
| DisplayLevel | OPERATOR | .. |
| Inherited | false | .. |
| Abstract | false | .. |
| Polling Period | Not polled | .. |
| | | |
| Command allowed for | All states | .. |

Command MoveHome :

Homes the motor automatically.
 If no reference mark is found in either direction,
 it will generate an error.

| MoveHome Definition | | |
|-------------------------|---|-------------------|
| Input Argument | Tango::DEV_VOID | |
| Output Argument | Tango::DEV_LONG | Completion status |
| DisplayLevel | OPERATOR | .. |
| Inherited | false | .. |
| Abstract | false | .. |
| Polling Period | Not polled | .. |
| | | |
| Command NOT allowed for | <ul style="list-style-type: none"> • FAULT • MOVING | .. |

Command MoveHomePositive :

| MoveHomePositive Definition | | |
|-----------------------------|---|----|
| Input Argument | Tango::DEV_VOID | |
| Output Argument | Tango::DEV_VOID | |
| DisplayLevel | OPERATOR | .. |
| Inherited | false | .. |
| Abstract | false | .. |
| Polling Period | Not polled | .. |
| | | |
| Command NOT allowed for | <ul style="list-style-type: none"> • FAULT • MOVING | .. |

Command ResetMotor :

Reset the motor

| ResetMotor Definition | | |
|------------------------------|-----------------|-------------------|
| Input Argument | Tango::DEV_VOID | |
| Output Argument | Tango::DEV_LONG | Completion status |
| DisplayLevel | OPERATOR | .. |
| Inherited | false | .. |
| Abstract | false | .. |
| Polling Period | Not polled | .. |
| | | |
| Command allowed for | All states | .. |

Command GetBoardInfo :

| GetBoardInfo Definition | | |
|--------------------------------|-------------------|----|
| Input Argument | Tango::DEV_VOID | |
| Output Argument | Tango::DEV_STRING | |
| DisplayLevel | OPERATOR | .. |
| Inherited | false | .. |
| Abstract | false | .. |
| Polling Period | Not polled | .. |
| | | |
| Command allowed for | All states | .. |

Command WriteRead :

| WriteRead Definition | | |
|-----------------------------|-------------------|----|
| Input Argument | Tango::DEV_STRING | |
| Output Argument | Tango::DEV_STRING | |
| DisplayLevel | OPERATOR | .. |
| Inherited | false | .. |
| Abstract | false | .. |
| Polling Period | Not polled | .. |
| | | |
| Command allowed for | All states | .. |

OmsMaxV Class Attributes

| Name | Inherited | Abstract | Attr. type | R/W type | Data type | Level | Description |
|--|-----------|----------|------------|------------|-------------------|----------|--|
| ParkingActive | false | false | Scalar | READ_WRITE | Tango::DEV_SHORT | OPERATOR | |
| ParkingAutomatic | false | false | Scalar | READ_WRITE | Tango::DEV_SHORT | OPERATOR | |
| ParkingSettleTime | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | max = 1000\nmin = 0 |
| Conversion | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | |
| InvertEncoderDirection | false | false | Scalar | READ_WRITE | Tango::DEV_SHORT | OPERATOR | |
| InvertVoltage | false | false | Scalar | READ_WRITE | Tango::DEV_SHORT | OPERATOR | |
| Acceleration | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | |
| AccelerationUnits | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | |
| Velocity | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | |
| VelocityUnits | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | |
| PIDProportionalGain | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | PID gain, proportional part |
| PIDIntegralGain | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | PID gain, integral part |
| PIDIntegralUpperSumLimit | false | false | Scalar | READ_WRITE | Tango::DEV_LONG | OPERATOR | PID integral upper sum limit. Default is 200. |
| PIDDerivativeGain | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | PID gain, derivative part |
| PIDAccFeedforward | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | PID Acceleration feedforward\nDefault = 0 |
| PIDVelocityFeedforward | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | PID Velocity feedforward\nDefault = 0 |
| PIDFrictionCoefficient | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | PID Friction coefficient |
| PIDDeadbandHold | false | false | Scalar | READ_WRITE | Tango::DEV_LONG | OPERATOR | |
| PIDDeadbandHoldUnits | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | |
| PIDDeadbandHoldTime | false | false | Scalar | READ_WRITE | Tango::DEV_LONG | OPERATOR | The axis has to hold the specified position for this many milliseconds before the axis signals done. |
| PIDMaxOutputVoltage | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | PID Maximum output voltage\nDefault = 0 (setting disabled) |
| PIDServoVoltageDeadband | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | Deadband value for piezoelectric servo motors |
| PIDServoOffset | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | PID offset. |
| PIDActive | false | false | Scalar | READ_WRITE | Tango::DEV_SHORT | OPERATOR | |
| PIDstatus | false | false | Scalar | READ | Tango::DEV_STRING | OPERATOR | |
| Position | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | |
| PositionRaw | false | false | Scalar | READ | Tango::DEV_DOUBLE | OPERATOR | |
| | | | | | | | Divides the axis position counter by |

| | | | | | | | |
|--|-------|-------|--------|------------|-------------------|----------|---|
| ResetModuloPosition | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | the parameter supplied and replaces the\naxis position counter with the resulting remainder. |
| RemainingMoveTime | false | false | Scalar | READ | Tango::DEV_DOUBLE | OPERATOR | |
| ServoOutputVoltage | false | false | Scalar | READ | Tango::DEV_FLOAT | OPERATOR | |
| FlagMotorHomed | false | false | Scalar | READ | Tango::DEV_SHORT | OPERATOR | |
| HomeFoundPosition | false | false | Scalar | READ | Tango::DEV_DOUBLE | OPERATOR | |
| FlagSlipStatus | false | false | Scalar | READ_WRITE | Tango::DEV_SHORT | OPERATOR | |
| FlagCwLimit | false | false | Scalar | READ | Tango::DEV_SHORT | OPERATOR | |
| FlagCcwLimit | false | false | Scalar | READ | Tango::DEV_SHORT | OPERATOR | |
| FlagOvertravel | false | false | Scalar | READ | Tango::DEV_SHORT | OPERATOR | |
| FlagSetupReady | false | false | Scalar | READ | Tango::DEV_SHORT | OPERATOR | |
| FlagEncoderError | false | false | Scalar | READ | Tango::DEV_SHORT | OPERATOR | |
| DoneDetectionMode | false | false | Scalar | READ_WRITE | Tango::DEV_SHORT | OPERATOR | 0 = Interrupt when approx. done\n1 = Interrupt when in exact position (+/- deadband) |
| EncoderSlipTolerance | false | false | Scalar | READ_WRITE | Tango::DEV_LONG | OPERATOR | Slip tolerance in counts. The closed loop will be turned off\nwhen the error exceeds this value. |
| EncoderSlipToleranceUnits | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | Slip tolerance in units. The closed loop will be turned off\nwhen the error exceeds this value. |
| SlipKillMode | false | false | Scalar | READ_WRITE | Tango::DEV_SHORT | OPERATOR | |
| RampDownLimitsActive | false | false | Scalar | READ_WRITE | Tango::DEV_SHORT | OPERATOR | |
| SoftLimitMinUnits | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | |
| SoftLimitMaxUnits | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | |
| HomeOffsetUnits | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | |
| AuxiliaryControlAtVelocity | false | false | Scalar | READ_WRITE | Tango::DEV_SHORT | OPERATOR | 0 = The auxiliary pin is left alone\n1 = The auxiliary pin will be turned on when the motor has reached\na constant velocity, and off when the motor stops.\n |
| AuxiliaryControlPolarity | false | false | Scalar | READ_WRITE | Tango::DEV_SHORT | OPERATOR | 0 = The auxiliary pin is HIGH during move.\n1 = The auxiliary pin is LOW during move.\n |
| ElectronicGearingActive | false | false | Scalar | READ_WRITE | Tango::DEV_USHORT | OPERATOR | 0 = Inactive\n1 = Active |
| ElectronicGearingMasterAxis | false | false | Scalar | READ_WRITE | Tango::DEV_USHORT | OPERATOR | 0 = X\n1 = Y\n2 = Z\n3 = T\n4 = U\n5 = V\n6 = R\n7 = S |
| ElectronicGearingMasterAxisRatio | false | false | Scalar | READ_WRITE | Tango::DEV_LONG | OPERATOR | 0 = X\n1 = Y\n2 = Z\n3 = T\n4 = U\n5 = V\n6 = R\n7 = S |
| ElectronicGearingSelfAxisRatio | false | false | Scalar | READ_WRITE | Tango::DEV_LONG | OPERATOR | 0 = X\n1 = Y\n2 = Z\n3 = T\n4 = U\n5 = V\n6 = R\n7 = S |

There is no dynamic attribute defined.

Attribute ParkingActive :

| Attribute Definition | |
|-------------------------|------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_SHORT |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute ParkingAutomatic :

| Attribute Definition | |
|-------------------------|------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_SHORT |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute ParkingSettleTime :

max = 1000\nmin = 0

| Attribute Definition | |
|-------------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|----|
| label | |
| unit | ms |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute Conversion :

| Attribute Definition | |
|-------------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|-------------|
| label | |
| unit | counts/unit |
| standard unit | |
| display unit | |
| format | %11.5f |
| 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 |

Attribute InvertEncoderDirection :

| Attribute Definition | |
|-------------------------|------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_SHORT |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute InvertVoltage :

| Attribute Definition | |
|-------------------------|------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_SHORT |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute Acceleration :

| Attribute Definition | |
|-------------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|-----------------------|
| label | |
| unit | counts/s ² |
| standard unit | |
| display unit | |
| format | %8.2f |
| 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 |

Attribute AccelerationUnits :

| Attribute Definition | |
|-------------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|----------------------|
| label | |
| unit | units/s ² |
| standard unit | |
| display unit | |
| format | %8.2f |
| 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 |

Attribute Velocity :

| Attribute Definition | |
|-------------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|----------|
| label | |
| unit | counts/s |
| standard unit | |
| display unit | |
| format | %8.2f |
| 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 |

Attribute VelocityUnits :

| Attribute Definition | |
|-------------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|---------|
| label | |
| unit | units/s |
| standard unit | |
| display unit | |
| format | %8.2f |
| 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 |

Attribute PIDProportionalGain :

PID gain, proportional part

| Attribute Definition | |
|-------------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties |
|----------------------|
| label |
| unit |
| standard unit |
| display unit |
| format |
| 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 |

Attribute PIDIntegralGain :

PID gain, integral part

| Attribute Definition | |
|-------------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties |
|----------------------|
| label |
| unit |
| standard unit |
| display unit |
| format |
| 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 |

Attribute PIDIntegralUpperSumLimit :

PID integral upper sum limit. Default is 200.

| Attribute Definition | |
|-------------------------|-----------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_LONG |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties |
|----------------------|
| label |
| unit |
| standard unit |
| display unit |
| format |
| 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 |

Attribute PIDDerivativeGain :

PID gain, derivative part

| Attribute Definition | |
|-------------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties |
|----------------------|
| label |
| unit |
| standard unit |
| display unit |
| format |
| 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 |

Attribute PIDAccFeedforward :

PID Acceleration feedforward\nDefault = 0

| Attribute Definition | |
|-------------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute PIDVelocityFeedforward :

PID Velocity feedforward\nDefault = 0

| Attribute Definition | |
|-------------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute PIDFrictionCoefficient :

PID Friction coefficient

| Attribute Definition | |
|-------------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute PIDDeadbandHold :

| Attribute Definition | |
|-------------------------|-----------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_LONG |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--------|
| label | |
| unit | counts |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute PIDDeadbandHoldUnits :

| Attribute Definition | |
|----------------------|------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| | |

| Attribute Properties | |
|----------------------|-------|
| label | |
| unit | units |
| standard unit | |

| Attribute Event Criteria | |
|--------------------------|---------|
| Periodic | Not set |
| Relative Change | Not set |
| | |

| | |
|-------------------------|-------------------|
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| | |
|--------------|--|
| display unit | |
| format | |
| max_value | |
| min_value | |
| max_alarm | |
| min_alarm | |
| max_warning | |
| min_warning | |
| delta_time | |
| delta_val | |

| | |
|-----------------------------------|---------|
| 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 |

Attribute PIDDeadbandHoldTime :

The axis has to hold the specified position for this many milliseconds before the axis signals done.

| Attribute Definition | |
|-------------------------|-----------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_LONG |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|----|
| label | |
| unit | ms |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute PIDMaxOutputVoltage :

PID Maximum output voltage\nDefault = 0 (setting disabled)

| Attribute Definition | |
|----------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |

| Attribute Properties | |
|----------------------|----|
| label | |
| unit | mV |
| standard unit | |
| display unit | |

| Attribute Event Criteria | |
|--------------------------|---------|
| Periodic | Not set |
| Relative Change | Not set |
| Absolute Change | Not set |
| | |

| | |
|-------------------------|------------|
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| | |
|-------------|-------|
| format | %6.2f |
| max_value | |
| min_value | |
| max_alarm | |
| min_alarm | |
| max_warning | |
| min_warning | |
| delta_time | |
| delta_val | |

| | |
|-----------------------------------|---------|
| 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 |

Attribute PIDServoVoltageDeadband :

Deadband value for piezoelectric servo motors

| Attribute Definition | |
|-------------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|----|
| label | |
| unit | mV |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute PIDServoOffset :

PID offset.

| Attribute Definition | |
|----------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |

| Attribute Properties | |
|----------------------|----|
| label | |
| unit | mV |
| standard unit | |
| display unit | |
| format | |

| Attribute Event Criteria | |
|--------------------------|---------|
| Periodic | Not set |
| Relative Change | Not set |
| Absolute Change | Not set |
| | |
| Archive Periodic | Not set |

| | |
|-------------------------|------------|
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| | |
|-------------|--|
| max_value | |
| min_value | |
| max_alarm | |
| min_alarm | |
| max_warning | |
| min_warning | |
| delta_time | |
| delta_val | |

| | |
|-----------------------------------|---------|
| 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 |

Attribute PIDactive :

| Attribute Definition | |
|-------------------------|------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_SHORT |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute PIDstatus :

| Attribute Definition | |
|----------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ |
| Data Type | Tango::DEV_STRING |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | Not set |
| | |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| max_value | |
| min_value | |
| max_alarm | |
| min_alarm | |

| 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 |

| | |
|------------------|------------|
| Read allowed for | All states |
|------------------|------------|

| | |
|-------------|--|
| max_warning | |
| min_warning | |
| delta_time | |
| delta_val | |

| | |
|-----------------------------------|---------|
| Push Archive event by user code | false |
| Push DataReady event by user code | Not set |

Attribute Position :

| Attribute Definition | |
|----------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | Not set |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--------|
| label | |
| unit | units |
| standard unit | |
| display unit | |
| format | %10.3f |
| 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 |

Attribute PositionRaw :

| Attribute Definition | |
|----------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | Not set |
| | |
| Read allowed for | All states |

| Attribute Properties | |
|----------------------|--------|
| label | |
| unit | counts |
| standard unit | |
| display unit | |
| format | |
| max_value | |
| min_value | |
| max_alarm | |
| min_alarm | |
| max_warning | |
| min_warning | |
| delta_time | |

| 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 |

Attribute ResetModuloPosition :

Divides the axis position counter by the parameter supplied and replaces the axis position counter with the resulting remainder.

| Attribute Definition | |
|----------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | Not set |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--------|
| label | |
| unit | counts |
| standard unit | |
| display unit | |
| format | %10.3f |
| 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 |

Attribute RemainingMoveTime :

| Attribute Definition | |
|----------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | Not set |
| | |
| Read allowed for | All states |

| Attribute Properties | |
|----------------------|---|
| label | |
| unit | s |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute ServoOutputVoltage :

| Attribute Definition | |
|----------------------|------------------|
| Attribute Type | Scalar |
| R/W Type | READ |
| Data Type | Tango::DEV_FLOAT |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | Not set |
| | |
| Read allowed for | All states |

| Attribute Properties | |
|----------------------|-------|
| label | |
| unit | V |
| standard unit | |
| display unit | |
| format | %5.3f |
| 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 |

Attribute FlagMotorHomed :

| Attribute Definition | |
|----------------------|------------------|
| Attribute Type | Scalar |
| R/W Type | READ |
| Data Type | Tango::DEV_SHORT |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | Not set |
| | |
| Read allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute HomeFoundPosition :

| Attribute Definition | |
|----------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | Not set |
| | |
| Read allowed for | All states |

| Attribute Properties | |
|----------------------|-------|
| label | |
| unit | units |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute FlagSlipStatus :

| Attribute Definition | |
|----------------------|------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_SHORT |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | Not set |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute FlagCwLimit :

| Attribute Definition | |
|----------------------|--|
|----------------------|--|

| Attribute Properties | |
|----------------------|--|
|----------------------|--|

| Attribute Event Criteria | |
|--------------------------|--|
|--------------------------|--|

| | |
|------------------|------------------|
| Attribute Type | Scalar |
| R/W Type | READ |
| Data Type | Tango::DEV_SHORT |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | Not set |
| | |
| Read allowed for | All states |

| | |
|---------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| max_value | |
| min_value | |
| max_alarm | |
| min_alarm | |
| max_warning | |
| min_warning | |
| delta_time | |
| delta_val | |

| | |
|-----------------------------------|---------|
| 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 |

Attribute FlagCcwLimit :

| Attribute Definition | |
|----------------------|------------------|
| Attribute Type | Scalar |
| R/W Type | READ |
| Data Type | Tango::DEV_SHORT |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | Not set |
| | |
| Read allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute FlagOvertravel :

| Attribute Definition | |
|----------------------|------------------|
| Attribute Type | Scalar |
| R/W Type | READ |
| Data Type | Tango::DEV_SHORT |
| | |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |

| Attribute Event Criteria | |
|--------------------------|---------|
| Periodic | Not set |
| Relative Change | Not set |
| Absolute Change | Not set |
| | |

| | |
|-------------------------|-------------------|
| Display Level Inherited | OPERATOR false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | Not set |
| | |
| Read allowed for | All states |

| | |
|-------------|--|
| format | |
| max_value | |
| min_value | |
| max_alarm | |
| min_alarm | |
| max_warning | |
| min_warning | |
| delta_time | |
| delta_val | |

| | |
|-----------------------------------|---------|
| 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 |

Attribute FlagSetupReady :

| Attribute Definition | |
|----------------------|------------------|
| Attribute Type | Scalar |
| R/W Type | READ |
| Data Type | Tango::DEV_SHORT |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | Not set |
| | |
| Read allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute FlagEncoderError :

| Attribute Definition | |
|----------------------|------------------|
| Attribute Type | Scalar |
| R/W Type | READ |
| Data Type | Tango::DEV_SHORT |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| max_value | |
| min_value | |
| max_alarm | |

| 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 |

| | |
|------------------|------------|
| Memorized | Not set |
| Read allowed for | All states |

| | |
|-------------|--|
| min_alarm | |
| max_warning | |
| min_warning | |
| delta_time | |
| delta_val | |

| | |
|-----------------------------------|---------|
| Push Change event by user code | false |
| Push Archive event by user code | false |
| Push DataReady event by user code | Not set |

Attribute DoneDetectionMode :

0 = Interrupt when approx. done\n1 = Interrupt when in exact position (+/- deadband)

| Attribute Definition | |
|-------------------------|------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_SHORT |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute EncoderSlipTolerance :

Slip tolerance in counts. The closed loop will be turned off \nwhen the error exceeds this value.

| Attribute Definition | |
|-------------------------|-----------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_LONG |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |

| Attribute Properties | |
|----------------------|--------|
| label | |
| unit | counts |
| standard unit | |
| display unit | |
| format | |
| max_value | |
| min_value | |
| max_alarm | |
| min_alarm | |

| 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 |

| | |
|-------------------|------------|
| Read allowed for | All states |
| Write allowed for | All states |

| | |
|-------------|--|
| max_warning | |
| min_warning | |
| delta_time | |
| delta_val | |

| | |
|-----------------------------------|---------|
| Push Archive event by user code | false |
| Push DataReady event by user code | Not set |

Attribute EncoderSlipToleranceUnits :

Slip tolerance in units. The closed loop will be turned off when the error exceeds this value.

| Attribute Definition | |
|-------------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|-------|
| label | |
| unit | Units |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute SlipKillMode :

| Attribute Definition | |
|-------------------------|------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_SHORT |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| max_value | |
| min_value | |
| max_alarm | |
| min_alarm | |
| max_warning | |
| min_warning | |

| 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 |

| |
|------------|
| delta_time |
| delta_val |

Attribute RampDownLimitsActive :

| Attribute Definition | |
|-------------------------|------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_SHORT |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute SoftLimitMinUnits :

| Attribute Definition | |
|-------------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|-------|
| label | |
| unit | units |
| standard unit | |
| display unit | |
| format | %8.2f |
| 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 |

Attribute SoftLimitMaxUnits :

| Attribute Definition | |
|-------------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|-------|
| label | |
| unit | units |
| standard unit | |
| display unit | |
| format | %8.2f |
| 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 |

Attribute HomeOffsetUnits :

| Attribute Definition | |
|-------------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|-------|
| label | |
| unit | units |
| standard unit | |
| display unit | |
| format | %9.3f |
| 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 |

Attribute AuxiliaryControlAtVelocity :

0 = The auxiliary pin is left alone
 1 = The auxiliary pin will be turned on when the motor has reached a constant velocity, and off when the motor stops.

| Attribute Definition | |
|-------------------------|------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_SHORT |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute AuxiliaryControlPolarity :

0 = The auxiliary pin is HIGH during move.
 1 = The auxiliary pin is LOW during move.

| Attribute Definition | |
|-------------------------|------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_SHORT |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute ElectronicGearingActive :

0 = Inactive
 1 = Active

| Attribute Definition | |
|----------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_USHORT |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | Not set |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute ElectronicGearingMasterAxis :

0 = X\n1 = Y\n2 = Z\n3 = T\n4 = U\n5 = V\n6 = R\n7 = S

| Attribute Definition | |
|-------------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_USHORT |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|---|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| max_value | 7 |
| min_value | 0 |
| 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 |

Attribute ElectronicGearingMasterAxisRatio :

0 = X\n1 = Y\n2 = Z\n3 = T\n4 = U\n5 = V\n6 = R\n7 = S

| Attribute Definition | |
|-------------------------|-----------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_LONG |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| 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 |

Attribute ElectronicGearingSelfAxisRatio :

$$0 = X \setminus n1 = Y \setminus n2 = Z \setminus n3 = T \setminus n4 = U \setminus n5 = V \setminus n6 = R \setminus n7 = S$$

| Attribute Definition | |
|-------------------------|-----------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_LONG |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | true |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|--|
| label | |
| unit | |
| standard unit | |
| display unit | |
| format | |
| 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 |

| OmsMaxV Class States | |
|----------------------|-------------|
| Name | Description |
| | |

| | |
|--------|---|
| ON | VME crate on, MaxV card connected, motor idle |
| FAULT | |
| MOVING | |