canSAS1d/1.0

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Package
net.smallangles.cansas1d

net.smallangles.cansas1d
Class CanSas1dType

```
java.lang.Object
   |
   +-net.smallangles.cansas1d.CanSas1dType
```

public class **CanSas1dType**
extends Object

This is the main class to manage canSAS standard data structures in memory.

Use create() if you want to create a new content structure in memory.

Use open() if you want to load content from an XML file into memory.

Constructor Summary

public	CanSas1dType()

Method Summary

javax.xml.bind.JAXBContext	create() Create a new JAXB context
String	getContext()
javax.xml.bind.JAXBContext	getJaxbContext()
SASrootType	getSasRoot()
String	getXmlFile()
javax.xml.bind.JAXBElement	getXmlJavaData()
SASrootType	open(String xmlFile) Open an existing canSAS XML data file and load it into memory

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

CanSas1dType

public **CanSas1dType**()

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Methods

create

```
public javax.xml.bind.JAXBContext create()
  throws javax.xml.bind.JAXBException
```

Create a new JAXB context

Returns:
new JAXB context object

Throws:
`JAXBException`

---

open

```
public SASrootType open(String xmlFile)
  throws javax.xml.bind.JAXBException
```

Open an existing canSAS XML data file and load it into memory

Parameters:
`xmlFile`

Returns:
SASroot object with content from XML file

Throws:
`JAXBException`

---

getJaxbContext

```
public javax.xml.bind.JAXBContext getJaxbContext()
```

---

getXmlJavaData

```
public javax.xml.bind.JAXBElement getXmlJavaData()
```

---

getSasRoot

```
public SASrootType getSasRoot()
```

---

getXmlFile

```
public String getXmlFile()
```

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getContext

```
public String getContext()
```

net.smallangles.cansas1d
Class FloatUnitType

```
java.lang.Object
   |
   +-net.smallangles.cansas1d.FloatUnitType
```

public class **FloatUnitType**
extends Object

Java class for floatUnitType complex type.

The following schema fragment specifies the expected content contained within this class.

```
 <complexType name="floatUnitType">
   <simpleContent>
     <extension base="<http://www.w3.org/2001/XMLSchema>float">
       <attribute name="unit" use="required" type="{http://www.w3.org/2001/XMLSchema}string"
/>
     </extension>
   </simpleContent>
 </complexType>
```

Field Summary

protected	unit
protected	value

Constructor Summary

public	FloatUnitType()

Method Summary

String	getUnit() Gets the value of the unit property.
float	getValue() Gets the value of the value property.
void	setUnit(String value) Sets the value of the unit property.
void	setValue(float value) Sets the value of the value property.

Methods inherited from class `java.lang.Object`

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

value

protected float **value**

unit

protected java.lang.String **unit**

Constructors

FloatUnitType

public **FloatUnitType**()

Methods

getValue

public float **getValue**()

Gets the value of the value property.

setValue

public void **setValue**(float value)

Sets the value of the value property.

getUnit

public String **getUnit**()

Gets the value of the unit property.

Returns:

possible object is java.lang.String

setUnit

public void **setUnit**(String value)

Sets the value of the unit property.

Parameters:

(continued from last page)

`value` - allowed object is `java.lang.String`

net.smallangles.cansas1d
Class IdataType

```
java.lang.Object
   |
   +-net.smallangles.cansas1d.IdataType
```

public class **IdataType**
extends Object

Java class for IdataType complex type.

The following schema fragment specifies the expected content contained within this class.

```
 <complexType name="IdataType">
   <complexContent>
     <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
       <sequence>
         <element name="Q" type="{cansas1d/1.0}floatUnitType"/>
         <element name="I" type="{cansas1d/1.0}floatUnitType"/>
         <element name="Idev" type="{cansas1d/1.0}floatUnitType" minOccurs="0"/>
         <choice>
           <element name="Qdev" type="{cansas1d/1.0}floatUnitType" minOccurs="0"/>
           <sequence>
             <element name="dQw" type="{cansas1d/1.0}floatUnitType" minOccurs="0"/>
             <element name="dQl" type="{cansas1d/1.0}floatUnitType" minOccurs="0"/>
           </sequence>
         </choice>
         <element name="Qmean" type="{cansas1d/1.0}floatUnitType" minOccurs="0"/>
         <element name="Shadowfactor" type="{http://www.w3.org/2001/XMLSchema}float"
minOccurs="0"/>
         <any/>
       </sequence>
     </restriction>
   </complexContent>
 </complexType>
```

Field Summary

protected	any
protected	dQl
protected	dQw
protected	i

protected	idev
protected	q
protected	qdev
protected	qmean
protected	shadowfactor

Constructor Summary

public	IdataType()

Method Summary

List	getAny() Gets the value of the any property.
FloatUnitType	getDQl() Gets the value of the dQl property.
FloatUnitType	getDQw() Gets the value of the dQw property.
FloatUnitType	getI() Gets the value of the i property.
FloatUnitType	getIdev() Gets the value of the idev property.
FloatUnitType	getQ() Gets the value of the q property.
FloatUnitType	getQdev() Gets the value of the qdev property.
FloatUnitType	getQmean() Gets the value of the qmean property.
Float	getShadowfactor() Gets the value of the shadowfactor property.
void	setDQl(FloatUnitType value) Sets the value of the dQl property.
void	setDQw(FloatUnitType value) Sets the value of the dQw property.
void	setI(FloatUnitType value) Sets the value of the i property.
void	setIdev(FloatUnitType value) Sets the value of the idev property.

void	setQ(FloatUnitType value) Sets the value of the q property.
void	setQdev(FloatUnitType value) Sets the value of the qdev property.
void	setQmean(FloatUnitType value) Sets the value of the qmean property.
void	setShadowfactor(Float value) Sets the value of the shadowfactor property.

Methods inherited from class `java.lang.Object`

`clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Fields

q

`protected net.smallangles.cansas1d.FloatUnitType q`

i

`protected net.smallangles.cansas1d.FloatUnitType i`

idev

`protected net.smallangles.cansas1d.FloatUnitType idev`

qdev

`protected net.smallangles.cansas1d.FloatUnitType qdev`

dQw

`protected net.smallangles.cansas1d.FloatUnitType dQw`

dQl

`protected net.smallangles.cansas1d.FloatUnitType dQl`

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qmean

```
protected net.smallangles.cansas1d.FloatUnitType qmean
```

shadowfactor

```
protected java.lang.Float shadowfactor
```

any

```
protected java.util.List any
```

Constructors

IdataType

```
public IdataType()
```

Methods

getQ

```
public FloatUnitType getQ()
```

Gets the value of the q property.

Returns:
possible object is `FloatUnitType`

setQ

```
public void setQ(FloatUnitType value)
```

Sets the value of the q property.

Parameters:
`value` - allowed object is `FloatUnitType`

getI

```
public FloatUnitType getI()
```

Gets the value of the i property.

Returns:
possible object is `FloatUnitType`

(continued from last page)

setI

`public void setI(FloatUnitType value)`

Sets the value of the i property.

Parameters:
`value` - allowed object is `FloatUnitType`

getIdev

`public FloatUnitType getIdev()`

Gets the value of the idev property.

Returns:
possible object is `FloatUnitType`

setIdev

`public void setIdev(FloatUnitType value)`

Sets the value of the idev property.

Parameters:
`value` - allowed object is `FloatUnitType`

getQdev

`public FloatUnitType getQdev()`

Gets the value of the qdev property.

Returns:
possible object is `FloatUnitType`

setQdev

`public void setQdev(FloatUnitType value)`

Sets the value of the qdev property.

Parameters:
`value` - allowed object is `FloatUnitType`

getDQw

`public FloatUnitType getDQw()`

Gets the value of the dQw property.

Returns:
possible object is `FloatUnitType`

setDQw

`public void setDQw(FloatUnitType value)`

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Sets the value of the dQw property.

Parameters:
`value` - allowed object is `FloatUnitType`

getDQl

`public FloatUnitType getDQl()`

Gets the value of the dQl property.

Returns:
possible object is `FloatUnitType`

setDQl

`public void setDQl(FloatUnitType value)`

Sets the value of the dQl property.

Parameters:
`value` - allowed object is `FloatUnitType`

getQmean

`public FloatUnitType getQmean()`

Gets the value of the qmean property.

Returns:
possible object is `FloatUnitType`

setQmean

`public void setQmean(FloatUnitType value)`

Sets the value of the qmean property.

Parameters:
`value` - allowed object is `FloatUnitType`

getShadowfactor

`public Float getShadowfactor()`

Gets the value of the shadowfactor property.

Returns:
possible object is `java.lang.Float`

setShadowfactor

`public void setShadowfactor(Float value)`

Sets the value of the shadowfactor property.

Parameters:
`value` - allowed object is `java.lang.Float`

getAny

`public List` **`getAny`**`()`

Gets the value of the any property.

This accessor method returns a reference to the live list, not a snapshot. Therefore any modification you make to the returned list will be present inside the JAXB object. This is why there is not a `set` method for the any property.

For example, to add a new item, do as follows:

```
    getAny().add(newItem);
```

Objects of the following type(s) are allowed in the list `org.w3c.dom.Element`

net.smallangles.cansas1d
Class ObjectFactory

```
java.lang.Object
   |
   +-net.smallangles.cansas1d.ObjectFactory
```

public class **ObjectFactory**
extends Object

This object contains factory methods for each Java content interface and Java element interface generated in the cansas1d package.

An ObjectFactory allows you to programatically construct new instances of the Java representation for XML content. The Java representation of XML content can consist of schema derived interfaces and classes representing the binding of schema type definitions, element declarations and model groups. Factory methods for each of these are provided in this class.

Constructor Summary

public	ObjectFactory() Create a new ObjectFactory that can be used to create new instances of schema derived classes for package: cansas1d

Method Summary

FloatUnitType	createFloatUnitType() Create an instance of FloatUnitType
IdataType	createIdataType() Create an instance of IdataType
OrientationType	createOrientationType() Create an instance of OrientationType
PositionType	createPositionType() Create an instance of PositionType
SAScollimationType	createSAScollimationType() Create an instance of SAScollimationType
SAScollimationType.Aperture	createSAScollimationTypeAperture() Create an instance of SAScollimationType.Aperture
SASdataType	createSASdataType() Create an instance of SASdataType
SASdetectorType	createSASdetectorType() Create an instance of SASdetectorType
SASentryType	createSASentryType() Create an instance of SASentryType
SASentryType.Run	createSASentryTypeRun() Create an instance of SASentryType.Run
SASinstrumentType	createSASinstrumentType() Create an instance of SASinstrumentType

SASprocessType	createSASprocessType() Create an instance of SASprocessType
javax.xml.bind.JAXBElement	createSASroot(SASrootType value) Create an instance of javax.xml.bind.JAXBElement<<a href="locallink:net.smallangles.cansas1d.SASrootType">SASrootType>}
SASrootType	createSASrootType() Create an instance of SASrootType
SASsampleType	createSASsampleType() Create an instance of SASsampleType
SASsourceType	createSASsourceType() Create an instance of SASsourceType
TermType	createTermType() Create an instance of TermType

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

ObjectFactory

public **ObjectFactory**()

Create a new ObjectFactory that can be used to create new instances of schema derived classes for package: cansas1d

Methods

createSASentryTypeRun

public SASentryType.Run **createSASentryTypeRun**()

Create an instance of SASentryType.Run

createSASinstrumentType

public SASinstrumentType **createSASinstrumentType**()

Create an instance of SASinstrumentType

createSASdataType

public SASdataType **createSASdataType**()

Create an instance of SASdataType

createSASprocessType

public SASprocessType **createSASprocessType**()

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Create an instance of SAStransmissionSpectrumType

createSASprocessType

`public SASprocessType createSASprocessType()`

Create an instance of SASprocessType

createSAScollimationType

`public SAScollimationType createSAScollimationType()`

Create an instance of SAScollimationType

createFloatUnitType

`public FloatUnitType createFloatUnitType()`

Create an instance of FloatUnitType

createSAScollimationTypeAperture

`public SAScollimationType.Aperture createSAScollimationTypeAperture()`

Create an instance of SAScollimationType.Aperture

createIdataType

`public IdataType createIdataType()`

Create an instance of IdataType

createSASsampleType

`public SASsampleType createSASsampleType()`

Create an instance of SASsampleType

createSASentryType

`public SASentryType createSASentryType()`

Create an instance of SASentryType

createSASrootType

`public SASrootType createSASrootType()`

Create an instance of SASrootType

createOrientationType

`public OrientationType createOrientationType()`

Create an instance of OrientationType

createSASsourceType

`public SASsourceType createSASsourceType()`

Create an instance of SASsourceType

(continued from last page)

createPositionType

`public PositionType createPositionType()`

Create an instance of `PositionType`

createSASdetectorType

`public SASdetectorType createSASdetectorType()`

Create an instance of `SASdetectorType`

createTermType

`public TermType createTermType()`

Create an instance of `TermType`

createSASroot

`public javax.xml.bind.JAXBElement createSASroot(SASrootType value)`

Create an instance of `javax.xml.bind.JAXBElement<<a href="locallink:net.smallangles.cansas1d.SASrootType">SASrootType>}`

net.smallangles.cansas1d
Class OrientationType

```
java.lang.Object
   |
   +-net.smallangles.cansas1d.OrientationType
```

public class **OrientationType**
extends Object

Java class for orientationType complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="orientationType">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <group ref="{cansas1d/1.0}orientationGroup"/>
      <attribute name="name" type="{http://www.w3.org/2001/XMLSchema}string" default="" />
    </restriction>
  </complexContent>
</complexType>
```

Field Summary

protected	name
protected	pitch
protected	roll
protected	yaw

Constructor Summary

public	OrientationType()

Method Summary

String	getName() Gets the value of the name property.
FloatUnitType	getPitch() Gets the value of the pitch property.
FloatUnitType	getRoll() Gets the value of the roll property.

FloatUnitType	getYaw() Gets the value of the yaw property.
void	setName(String value) Sets the value of the name property.
void	setPitch(FloatUnitType value) Sets the value of the pitch property.
void	setRoll(FloatUnitType value) Sets the value of the roll property.
void	setYaw(FloatUnitType value) Sets the value of the yaw property.

Methods inherited from class `java.lang.Object`

`clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Fields

roll

`protected net.smallangles.cansas1d.FloatUnitType` **`roll`**

pitch

`protected net.smallangles.cansas1d.FloatUnitType` **`pitch`**

yaw

`protected net.smallangles.cansas1d.FloatUnitType` **`yaw`**

name

`protected java.lang.String` **`name`**

Constructors

OrientationType

`public` **`OrientationType`**`()`

Methods

(continued from last page)

getRoll

`public FloatUnitType getRoll()`

Gets the value of the roll property.

Returns:
possible object is `FloatUnitType`

setRoll

`public void setRoll(FloatUnitType value)`

Sets the value of the roll property.

Parameters:
`value` - allowed object is `FloatUnitType`

getPitch

`public FloatUnitType getPitch()`

Gets the value of the pitch property.

Returns:
possible object is `FloatUnitType`

setPitch

`public void setPitch(FloatUnitType value)`

Sets the value of the pitch property.

Parameters:
`value` - allowed object is `FloatUnitType`

getYaw

`public FloatUnitType getYaw()`

Gets the value of the yaw property.

Returns:
possible object is `FloatUnitType`

setYaw

`public void setYaw(FloatUnitType value)`

Sets the value of the yaw property.

Parameters:
`value` - allowed object is `FloatUnitType`

getName

`public String getName()`

(continued from last page)

Gets the value of the name property.

Returns:
possible object is `java.lang.String`

setName

`public void **setName**(String value)`

Sets the value of the name property.

Parameters:
`value` - allowed object is `java.lang.String`

net.smallangles.cansas1d
Class PositionType

```
java.lang.Object
   |
   +-net.smallangles.cansas1d.PositionType
```

public class **PositionType**
extends Object

Java class for positionType complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="positionType">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <group ref="{cansas1d/1.0}positionGroup"/>
      <attribute name="name" type="{http://www.w3.org/2001/XMLSchema}string" default="" />
    </restriction>
  </complexContent>
</complexType>
```

Field Summary

protected	name
protected	x
protected	y
protected	z

Constructor Summary

public	PositionType()

Method Summary

String	getName() Gets the value of the name property.
FloatUnitType	getX() Gets the value of the x property.
FloatUnitType	getY() Gets the value of the y property.

FloatUnitType	getZ() Gets the value of the z property.
void	setName(String value) Sets the value of the name property.
void	setX(FloatUnitType value) Sets the value of the x property.
void	setY(FloatUnitType value) Sets the value of the y property.
void	setZ(FloatUnitType value) Sets the value of the z property.

Methods inherited from class `java.lang.Object`

`clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Fields

x

```
protected net.smallangles.cansas1d.FloatUnitType x
```

y

```
protected net.smallangles.cansas1d.FloatUnitType y
```

z

```
protected net.smallangles.cansas1d.FloatUnitType z
```

name

```
protected java.lang.String name
```

Constructors

PositionType

```
public PositionType()
```

Methods

(continued from last page)

getX

`public FloatUnitType getX()`

Gets the value of the x property.

Returns:
possible object is `FloatUnitType`

setX

`public void setX(FloatUnitType value)`

Sets the value of the x property.

Parameters:
`value` - allowed object is `FloatUnitType`

getY

`public FloatUnitType getY()`

Gets the value of the y property.

Returns:
possible object is `FloatUnitType`

setY

`public void setY(FloatUnitType value)`

Sets the value of the y property.

Parameters:
`value` - allowed object is `FloatUnitType`

getZ

`public FloatUnitType getZ()`

Gets the value of the z property.

Returns:
possible object is `FloatUnitType`

setZ

`public void setZ(FloatUnitType value)`

Sets the value of the z property.

Parameters:
`value` - allowed object is `FloatUnitType`

getName

`public String getName()`

(continued from last page)

Gets the value of the name property.

Returns:
possible object is `java.lang.String`

setName

```
public void setName(String value)
```

Sets the value of the name property.

Parameters:
`value` - allowed object is `java.lang.String`

net.smallangles.cansas1d
Class SAScollimationType

```
java.lang.Object
   |
   +-net.smallangles.cansas1d.SAScollimationType
```

public class **SAScollimationType**
extends Object

Java class for SAScollimationType complex type.

The following schema fragment specifies the expected content contained within this class.

```
 <complexType name="SAScollimationType">
   <complexContent>
     <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
       <sequence>
         <element name="length" type="{cansas1d/1.0}floatUnitType" minOccurs="0"/>
         <element name="aperture" maxOccurs="unbounded" minOccurs="0">
           <complexType>
             <complexContent>
               <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
                 <sequence>
                   <element name="size" type="{cansas1d/1.0}positionType" minOccurs="0"/>
                   <element name="distance" type="{cansas1d/1.0}floatUnitType"
minOccurs="0"/>
                 </sequence>
                 <attribute name="name" type="{http://www.w3.org/2001/XMLSchema}string"
default="" />
                 <attribute name="type" type="{http://www.w3.org/2001/XMLSchema}string"
default="" />
               </restriction>
             </complexContent>
           </complexType>
         </element>
       </sequence>
       <attribute name="name" type="{http://www.w3.org/2001/XMLSchema}string" default="" />
     </restriction>
   </complexContent>
 </complexType>
```

Nested Class Summary

class	SAScollimationType.Aperture SAScollimationType.Aperture

Field Summary

protected	aperture
protected	length
protected	name

Constructor Summary

public	SAScollimationType()

Method Summary

List	getAperture() Gets the value of the aperture property.
FloatUnitType	getLength() Gets the value of the length property.
String	getName() Gets the value of the name property.
void	setLength(FloatUnitType value) Sets the value of the length property.
void	setName(String value) Sets the value of the name property.

Methods inherited from class `java.lang.Object`

`clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Fields

length

`protected net.smallangles.cansas1d.FloatUnitType` **`length`**

aperture

`protected java.util.List` **`aperture`**

name

`protected java.lang.String` **`name`**

Constructors

(continued from last page)

SAScollimationType

`public SAScollimationType()`

Methods

getLength

`public FloatUnitType getLength()`

Gets the value of the length property.

Returns:
possible object is `FloatUnitType`

---

setLength

`public void setLength(FloatUnitType value)`

Sets the value of the length property.

Parameters:
`value` - allowed object is `FloatUnitType`

---

getAperture

`public List getAperture()`

Gets the value of the aperture property.

This accessor method returns a reference to the live list, not a snapshot. Therefore any modification you make to the returned list will be present inside the JAXB object. This is why there is not a `set` method for the aperture property.

For example, to add a new item, do as follows:

```
    getAperture().add(newItem);
```

Objects of the following type(s) are allowed in the list `SAScollimationType.Aperture`

---

getName

`public String getName()`

Gets the value of the name property.

Returns:
possible object is `java.lang.String`

---

setName

`public void setName(String value)`

(continued from last page)

Sets the value of the name property.

Parameters:

`value` - allowed object is `java.lang.String`

net.smallangles.cansas1d
Class SAScollimationType.Aperture

```
java.lang.Object
   |
   +-net.smallangles.cansas1d.SAScollimationType.Aperture
```

public static class **SAScollimationType.Aperture**
extends Object

Java class for anonymous complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType>
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="size" type="{cansas1d/1.0}positionType" minOccurs="0"/>
        <element name="distance" type="{cansas1d/1.0}floatUnitType" minOccurs="0"/>
      </sequence>
      <attribute name="name" type="{http://www.w3.org/2001/XMLSchema}string" default="" />
      <attribute name="type" type="{http://www.w3.org/2001/XMLSchema}string" default="" />
    </restriction>
  </complexContent>
</complexType>
```

Field Summary

protected	distance
protected	name
protected	size
protected	type

Constructor Summary

public	SAScollimationType.Aperture()

Method Summary

FloatUnitType	getDistance() Gets the value of the distance property.

String	getName() Gets the value of the name property.
PositionType	getSize() Gets the value of the size property.
String	getType() Gets the value of the type property.
void	setDistance(FloatUnitType value) Sets the value of the distance property.
void	setName(String value) Sets the value of the name property.
void	setSize(PositionType value) Sets the value of the size property.
void	setType(String value) Sets the value of the type property.

Methods inherited from class `java.lang.Object`

`clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Fields

size

`protected net.smallangles.cansas1d.PositionType size`

distance

`protected net.smallangles.cansas1d.FloatUnitType distance`

name

`protected java.lang.String name`

type

`protected java.lang.String type`

Constructors

(continued from last page)

SAScollimationType.Aperture

`public SAScollimationType.Aperture()`

Methods

getSize

`public PositionType getSize()`

Gets the value of the size property.

Returns:
possible object is `PositionType`

---

setSize

`public void setSize(PositionType value)`

Sets the value of the size property.

Parameters:
`value` - allowed object is `PositionType`

---

getDistance

`public FloatUnitType getDistance()`

Gets the value of the distance property.

Returns:
possible object is `FloatUnitType`

---

setDistance

`public void setDistance(FloatUnitType value)`

Sets the value of the distance property.

Parameters:
`value` - allowed object is `FloatUnitType`

---

getName

`public String getName()`

Gets the value of the name property.

Returns:
possible object is `java.lang.String`

---

setName

`public void setName(String value)`

(continued from last page)

Sets the value of the name property.

Parameters:
`value` - allowed object is `java.lang.String`

getType

`public String getType()`

Gets the value of the type property.

Returns:
possible object is `java.lang.String`

setType

`public void setType(String value)`

Sets the value of the type property.

Parameters:
`value` - allowed object is `java.lang.String`

net.smallangles.cansas1d
Class SASdataType

```
java.lang.Object
   |
   +-net.smallangles.cansas1d.SASdataType
```

public class **SASdataType**
extends Object

Java class for SASdataType complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="SASdataType">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="Idata" type="{cansas1d/1.0}IdataType" maxOccurs="unbounded"/>
      </sequence>
      <attribute name="name" type="{http://www.w3.org/2001/XMLSchema}string" default="" />
    </restriction>
  </complexContent>
</complexType>
```

Field Summary

protected	idata
protected	name

Constructor Summary

public	SASdataType()

Method Summary

List	getIdata() Gets the value of the idata property.
String	getName() Gets the value of the name property.
void	setName(String value) Sets the value of the name property.

Methods inherited from class `java.lang.Object`

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait,
wait
```

Fields

idata

```
protected java.util.List idata
```

name

```
protected java.lang.String name
```

Constructors

SASdataType

```
public SASdataType()
```

Methods

getIdata

```
public List getIdata()
```

Gets the value of the idata property.

This accessor method returns a reference to the live list, not a snapshot. Therefore any modification you make to the returned list will be present inside the JAXB object. This is why there is not a `set` method for the idata property.

For example, to add a new item, do as follows:

```
    getIdata().add(newItem);
```

Objects of the following type(s) are allowed in the list `IdataType`

getName

```
public String getName()
```

Gets the value of the name property.

Returns:
possible object is `java.lang.String`

setName

```
public void setName(String value)
```

Sets the value of the name property.

Parameters:

`value` - allowed object is `java.lang.String`

net.smallangles.cansas1d
Class SASdetectorType

```
java.lang.Object
   |
   +-net.smallangles.cansas1d.SASdetectorType
```

public class **SASdetectorType**
extends Object

Java class for SASdetectorType complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="SASdetectorType">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="name" type="{http://www.w3.org/2001/XMLSchema}string"/>
        <element name="SDD" type="{cansas1d/1.0}floatUnitType" minOccurs="0"/>
        <element name="offset" type="{cansas1d/1.0}positionType" minOccurs="0"/>
        <element name="orientation" type="{cansas1d/1.0}orientationType" minOccurs="0"/>
        <element name="beam_center" type="{cansas1d/1.0}positionType" minOccurs="0"/>
        <element name="pixel_size" type="{cansas1d/1.0}positionType" minOccurs="0"/>
        <element name="slit_length" type="{cansas1d/1.0}floatUnitType" minOccurs="0"/>
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```

Field Summary

protected	beamCenter
protected	name
protected	offset
protected	orientation
protected	pixelSize
protected	sdd
protected	slitLength

Constructor Summary

public	SASdetectorType()

Method Summary

PositionType	getBeamCenter() Gets the value of the beamCenter property.
String	getName() Gets the value of the name property.
PositionType	getOffset() Gets the value of the offset property.
OrientationType	getOrientation() Gets the value of the orientation property.
PositionType	getPixelSize() Gets the value of the pixelSize property.
FloatUnitType	getSDD() Gets the value of the sdd property.
FloatUnitType	getSlitLength() Gets the value of the slitLength property.
void	setBeamCenter(PositionType value) Sets the value of the beamCenter property.
void	setName(String value) Sets the value of the name property.
void	setOffset(PositionType value) Sets the value of the offset property.
void	setOrientation(OrientationType value) Sets the value of the orientation property.
void	setPixelSize(PositionType value) Sets the value of the pixelSize property.
void	setSDD(FloatUnitType value) Sets the value of the sdd property.
void	setSlitLength(FloatUnitType value) Sets the value of the slitLength property.

Methods inherited from class `java.lang.Object`

`clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Fields

name

`protected java.lang.String` **`name`**

(continued from last page)

sdd

```
protected net.smallangles.cansas1d.FloatUnitType sdd
```

offset

```
protected net.smallangles.cansas1d.PositionType offset
```

orientation

```
protected net.smallangles.cansas1d.OrientationType orientation
```

beamCenter

```
protected net.smallangles.cansas1d.PositionType beamCenter
```

pixelSize

```
protected net.smallangles.cansas1d.PositionType pixelSize
```

slitLength

```
protected net.smallangles.cansas1d.FloatUnitType slitLength
```

Constructors

SASdetectorType

```
public SASdetectorType()
```

Methods

getName

```
public String getName()
```

Gets the value of the name property.

Returns:
possible object is `java.lang.String`

setName

`public void setName(String value)`

Sets the value of the name property.

Parameters:
`value` - allowed object is `java.lang.String`

getSDD

`public FloatUnitType getSDD()`

Gets the value of the sdd property.

Returns:
possible object is `FloatUnitType`

setSDD

`public void setSDD(FloatUnitType value)`

Sets the value of the sdd property.

Parameters:
`value` - allowed object is `FloatUnitType`

getOffset

`public PositionType getOffset()`

Gets the value of the offset property.

Returns:
possible object is `PositionType`

setOffset

`public void setOffset(PositionType value)`

Sets the value of the offset property.

Parameters:
`value` - allowed object is `PositionType`

getOrientation

`public OrientationType getOrientation()`

Gets the value of the orientation property.

Returns:
possible object is `OrientationType`

setOrientation

`public void setOrientation(OrientationType value)`

(continued from last page)

Sets the value of the orientation property.

Parameters:
`value` - allowed object is `OrientationType`

getBeamCenter

`public PositionType getBeamCenter()`

Gets the value of the beamCenter property.

Returns:
possible object is `PositionType`

setBeamCenter

`public void setBeamCenter(PositionType value)`

Sets the value of the beamCenter property.

Parameters:
`value` - allowed object is `PositionType`

getPixelSize

`public PositionType getPixelSize()`

Gets the value of the pixelSize property.

Returns:
possible object is `PositionType`

setPixelSize

`public void setPixelSize(PositionType value)`

Sets the value of the pixelSize property.

Parameters:
`value` - allowed object is `PositionType`

getSlitLength

`public FloatUnitType getSlitLength()`

Gets the value of the slitLength property.

Returns:
possible object is `FloatUnitType`

setSlitLength

`public void setSlitLength(FloatUnitType value)`

Sets the value of the slitLength property.

Parameters:
`value` - allowed object is `FloatUnitType`

net.smallangles.cansas1d
Class SASentryType

```
java.lang.Object
   |
   +-net.smallangles.cansas1d.SASentryType
```

public class **SASentryType**
extends Object

Java class for SASentryType complex type.

The following schema fragment specifies the expected content contained within this class.

```
 <complexType name="SASentryType">
   <complexContent>
     <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
       <sequence>
         <element name="Title" type="{http://www.w3.org/2001/XMLSchema}string"/>
         <element name="Run" maxOccurs="unbounded">
           <complexType>
             <simpleContent>
               <extension base="<http://www.w3.org/2001/XMLSchema>string">
                 <attribute name="name" type="{http://www.w3.org/2001/XMLSchema}string"
default="" />
               </extension>
             </simpleContent>
           </complexType>
         </element>
         <any/>
         <element name="SASdata" type="{cansas1d/1.0}SASdataType" maxOccurs="unbounded"/>
         <any/>
         <element name="SASsample" type="{cansas1d/1.0}SASsampleType"/>
         <element name="SASinstrument" type="{cansas1d/1.0}SASinstrumentType"/>
         <element name="SASprocess" type="{cansas1d/1.0}SASprocessType" maxOccurs="unbounded"
minOccurs="0"/>
         <element name="SASnote" type="{http://www.w3.org/2001/XMLSchema}anyType"
maxOccurs="unbounded"/>
       </sequence>
       <attribute name="name" type="{http://www.w3.org/2001/XMLSchema}string" default="" />
     </restriction>
   </complexContent>
 </complexType>
```

Nested Class Summary

class	SASentryType.Run SASentryType.Run

Field Summary

protected	any
protected	name
protected	run
protected	saSdata
protected	saSentryAny2
protected	saSinstrument
protected	saSnote
protected	saSprocess
protected	saSsample
protected	title

Constructor Summary

public	SASentryType()

Method Summary

List	getAny() Gets the value of the any property.
String	getName() Gets the value of the name property.
List	getRun() Gets the value of the run property.
List	getSASdata() Gets the value of the saSdata property.
List	getSASentryAny2() Gets the value of the saSentryAny2 property.
SASinstrumentType	getSASinstrument() Gets the value of the saSinstrument property.
List	getSASnote() Gets the value of the saSnote property.
List	getSASprocess() Gets the value of the saSprocess property.

SASsampleType	getSASsample() Gets the value of the saSsample property.
String	getTitle() Gets the value of the title property.
void	setName(String value) Sets the value of the name property.
void	setSASinstrument(SASinstrumentType value) Sets the value of the saSinstrument property.
void	setSASsample(SASsampleType value) Sets the value of the saSsample property.
void	setTitle(String value) Sets the value of the title property.

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

title

protected java.lang.String **title**

run

protected java.util.List **run**

any

protected java.util.List **any**

saSdata

protected java.util.List **saSdata**

saSentryAny2

protected java.util.List **saSentryAny2**

(continued from last page)

saSsample

```
protected net.smallangles.cansas1d.SASsampleType saSsample
```

---

saSinstrument

```
protected net.smallangles.cansas1d.SASinstrumentType saSinstrument
```

---

saSprocess

```
protected java.util.List saSprocess
```

---

saSnote

```
protected java.util.List saSnote
```

---

name

```
protected java.lang.String name
```

Constructors

SASentryType

```
public SASentryType()
```

Methods

getTitle

```
public String getTitle()
```

Gets the value of the title property.

Returns:
possible object is `java.lang.String`

---

setTitle

```
public void setTitle(String value)
```

Sets the value of the title property.

Parameters:
`value` - allowed object is `java.lang.String`

getRun

`public List getRun()`

Gets the value of the run property.

This accessor method returns a reference to the live list, not a snapshot. Therefore any modification you make to the returned list will be present inside the JAXB object. This is why there is not a `set` method for the run property.

For example, to add a new item, do as follows:

```
    getRun().add(newItem);
```

Objects of the following type(s) are allowed in the list `SASentryType.Run`

getAny

`public List getAny()`

Gets the value of the any property.

This accessor method returns a reference to the live list, not a snapshot. Therefore any modification you make to the returned list will be present inside the JAXB object. This is why there is not a `set` method for the any property.

For example, to add a new item, do as follows:

```
    getAny().add(newItem);
```

Objects of the following type(s) are allowed in the list `org.w3c.dom.Element`

getSASdata

`public List getSASdata()`

Gets the value of the saSdata property.

This accessor method returns a reference to the live list, not a snapshot. Therefore any modification you make to the returned list will be present inside the JAXB object. This is why there is not a `set` method for the saSdata property.

For example, to add a new item, do as follows:

```
    getSASdata().add(newItem);
```

Objects of the following type(s) are allowed in the list `SASdataType`

getSASentryAny2

`public List getSASentryAny2()`

Gets the value of the saSentryAny2 property.

This accessor method returns a reference to the live list, not a snapshot. Therefore any modification you make to the returned list will be present inside the JAXB object. This is why there is not a `set` method for the saSentryAny2 property.

For example, to add a new item, do as follows:

```
getSASentryAny2().add(newItem);
```

Objects of the following type(s) are allowed in the list `org.w3c.dom.Element`

getSASsample

`public SASsampleType getSASsample()`

Gets the value of the saSsample property.

Returns:
possible object is `SASsampleType`

setSASsample

`public void setSASsample(SASsampleType value)`

Sets the value of the saSsample property.

Parameters:
`value` - allowed object is `SASsampleType`

getSASinstrument

`public SASinstrumentType getSASinstrument()`

Gets the value of the saSinstrument property.

Returns:
possible object is `SASinstrumentType`

setSASinstrument

`public void setSASinstrument(SASinstrumentType value)`

Sets the value of the saSinstrument property.

Parameters:
`value` - allowed object is `SASinstrumentType`

(continued from last page)

getSASprocess

`public List getSASprocess()`

Gets the value of the saSprocess property.

This accessor method returns a reference to the live list, not a snapshot. Therefore any modification you make to the returned list will be present inside the JAXB object. This is why there is not a `set` method for the saSprocess property.

For example, to add a new item, do as follows:

```
    getSASprocess().add(newItem);
```

Objects of the following type(s) are allowed in the list `SASprocessType`

getSASnote

`public List getSASnote()`

Gets the value of the saSnote property.

This accessor method returns a reference to the live list, not a snapshot. Therefore any modification you make to the returned list will be present inside the JAXB object. This is why there is not a `set` method for the saSnote property.

For example, to add a new item, do as follows:

```
    getSASnote().add(newItem);
```

Objects of the following type(s) are allowed in the list `java.lang.Object`

getName

`public String getName()`

Gets the value of the name property.

Returns:
possible object is `java.lang.String`

setName

`public void setName(String value)`

Sets the value of the name property.

Parameters:
`value` - allowed object is `java.lang.String`

net.smallangles.cansas1d
Class SASentryType.Run

```
java.lang.Object
   |
   +-net.smallangles.cansas1d.SASentryType.Run
```

public static class **SASentryType.Run**
extends Object

Java class for anonymous complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType>
  <simpleContent>
    <extension base="<http://www.w3.org/2001/XMLSchema>string">
      <attribute name="name" type="{http://www.w3.org/2001/XMLSchema}string" default="" />
    </extension>
  </simpleContent>
</complexType>
```

Field Summary

protected	name
protected	value

Constructor Summary

public	SASentryType.Run()

Method Summary

String	getName() Gets the value of the name property.
String	getValue() Gets the value of the value property.
void	setName(String value) Sets the value of the name property.
void	setValue(String value) Sets the value of the value property.

Methods inherited from class `java.lang.Object`

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

value

protected java.lang.String **value**

name

protected java.lang.String **name**

Constructors

SASentryType.Run

public **SASentryType.Run**()

Methods

getValue

public String **getValue**()

Gets the value of the value property.

Returns:
possible object is java.lang.String

setValue

public void **setValue**(String value)

Sets the value of the value property.

Parameters:
value - allowed object is java.lang.String

getName

public String **getName**()

Gets the value of the name property.

Returns:
possible object is java.lang.String

(continued from last page)

setName

```
public void setName(String value)
```

Sets the value of the name property.

Parameters:

`value` - allowed object is `java.lang.String`

net.smallangles.cansas1d
Class SASinstrumentType

```
java.lang.Object
   |
   +-net.smallangles.cansas1d.SASinstrumentType
```

public class **SASinstrumentType**
extends Object

Java class for SASinstrumentType complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="SASinstrumentType">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="name" type="{http://www.w3.org/2001/XMLSchema}string"/>
        <element name="SASsource" type="{cansas1d/1.0}SASsourceType"/>
        <element name="SAScollimation" type="{cansas1d/1.0}SAScollimationType"
maxOccurs="unbounded"/>
        <element name="SASdetector" type="{cansas1d/1.0}SASdetectorType"
maxOccurs="unbounded"/>
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```

Field Summary

protected	name
protected	saScollimation
protected	saSdetector
protected	saSsource

Constructor Summary

public	SASinstrumentType()

Method Summary

String	getName() Gets the value of the name property.

List	getSAScollimation() Gets the value of the saScollimation property.
List	getSASdetector() Gets the value of the saSdetector property.
SASsourceType	getSASsource() Gets the value of the saSsource property.
void	setName(String value) Sets the value of the name property.
void	setSASsource(SASsourceType value) Sets the value of the saSsource property.

Methods inherited from class `java.lang.Object`

`clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Fields

name

`protected java.lang.String` **`name`**

saSsource

`protected net.smallangles.cansas1d.SASsourceType` **`saSsource`**

saScollimation

`protected java.util.List` **`saScollimation`**

saSdetector

`protected java.util.List` **`saSdetector`**

Constructors

SASinstrumentType

`public` **`SASinstrumentType`**`()`

Methods

(continued from last page)

getName

`public String getName()`

Gets the value of the name property.

Returns:
possible object is `java.lang.String`

---

setName

`public void setName(String value)`

Sets the value of the name property.

Parameters:
`value` - allowed object is `java.lang.String`

---

getSASsource

`public SASsourceType getSASsource()`

Gets the value of the saSsource property.

Returns:
possible object is `SASsourceType`

---

setSASsource

`public void setSASsource(SASsourceType value)`

Sets the value of the saSsource property.

Parameters:
`value` - allowed object is `SASsourceType`

---

getSAScollimation

`public List getSAScollimation()`

Gets the value of the saScollimation property.

This accessor method returns a reference to the live list, not a snapshot. Therefore any modification you make to the returned list will be present inside the JAXB object. This is why there is not a `set` method for the saScollimation property.

For example, to add a new item, do as follows:

```
    getSAScollimation().add(newItem);
```

Objects of the following type(s) are allowed in the list `SAScollimationType`

(continued from last page)

getSASdetector

`public List` **`getSASdetector`**`()`

Gets the value of the saSdetector property.

This accessor method returns a reference to the live list, not a snapshot. Therefore any modification you make to the returned list will be present inside the JAXB object. This is why there is not a `set` method for the saSdetector property.

For example, to add a new item, do as follows:

```
    getSASdetector().add(newItem);
```

Objects of the following type(s) are allowed in the list `SASdetectorType`

net.smallangles.cansas1d
Class SASprocessType

```
java.lang.Object
   |
   +-net.smallangles.cansas1d.SASprocessType
```

public class **SASprocessType**
extends Object

Java class for SASprocessType complex type.

The following schema fragment specifies the expected content contained within this class.

```
 <complexType name="SASprocessType">
   <complexContent>
     <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
       <sequence>
         <element name="name" type="{http://www.w3.org/2001/XMLSchema}string" minOccurs="0"/>
         <element name="date" type="{http://www.w3.org/2001/XMLSchema}string" minOccurs="0"/>
         <element name="description" type="{http://www.w3.org/2001/XMLSchema}anyType"
minOccurs="0"/>
         <element name="term" type="{cansas1d/1.0}termType" maxOccurs="unbounded"
minOccurs="0"/>
         <element name="SASprocessnote" type="{http://www.w3.org/2001/XMLSchema}anyType"
maxOccurs="unbounded"/>
         <any/>
       </sequence>
       <attribute name="name" type="{http://www.w3.org/2001/XMLSchema}string" default="" />
     </restriction>
   </complexContent>
 </complexType>
```

Field Summary

protected	any
protected	date
protected	description
protected	saSprocessName
protected	saSprocessNameAttr
protected	saSprocessnote

protected	term

Constructor Summary

public	SASprocessType()

Method Summary

List	getAny() Gets the value of the any property.
String	getDate() Gets the value of the date property.
Object	getDescription() Gets the value of the description property.
String	getSASprocessName() Gets the value of the saSprocessName property.
String	getSASprocessNameAttr() Gets the value of the saSprocessNameAttr property.
List	getSASprocessnote() Gets the value of the saSprocessnote property.
List	getTerm() Gets the value of the term property.
void	setDate(String value) Sets the value of the date property.
void	setDescription(Object value) Sets the value of the description property.
void	setSASprocessName(String value) Sets the value of the saSprocessName property.
void	setSASprocessNameAttr(String value) Sets the value of the saSprocessNameAttr property.

Methods inherited from class `java.lang.Object`

`clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Fields

saSprocessName

`protected java.lang.String` **`saSprocessName`**

(continued from last page)

date

```
protected java.lang.String date
```

description

```
protected java.lang.Object description
```

term

```
protected java.util.List term
```

saSprocessnote

```
protected java.util.List saSprocessnote
```

any

```
protected java.util.List any
```

saSprocessNameAttr

```
protected java.lang.String saSprocessNameAttr
```

Constructors

SASprocessType

```
public SASprocessType()
```

Methods

getSASprocessName

```
public String getSASprocessName()
```

Gets the value of the saSprocessName property.

Returns:
possible object is `java.lang.String`

(continued from last page)

setSASprocessName

`public void setSASprocessName(String value)`

Sets the value of the saSprocessName property.

Parameters:
`value` - allowed object is `java.lang.String`

---

getDate

`public String getDate()`

Gets the value of the date property.

Returns:
possible object is `java.lang.String`

---

setDate

`public void setDate(String value)`

Sets the value of the date property.

Parameters:
`value` - allowed object is `java.lang.String`

---

getDescription

`public Object getDescription()`

Gets the value of the description property.

Returns:
possible object is `java.lang.Object`

---

setDescription

`public void setDescription(Object value)`

Sets the value of the description property.

Parameters:
`value` - allowed object is `java.lang.Object`

---

getTerm

`public List getTerm()`

(continued from last page)

Gets the value of the term property.

This accessor method returns a reference to the live list, not a snapshot. Therefore any modification you make to the returned list will be present inside the JAXB object. This is why there is not a `set` method for the term property.

For example, to add a new item, do as follows:

```
    getTerm().add(newItem);
```

Objects of the following type(s) are allowed in the list `TermType`

getSASprocessnote

`public List getSASprocessnote()`

Gets the value of the saSprocessnote property.

This accessor method returns a reference to the live list, not a snapshot. Therefore any modification you make to the returned list will be present inside the JAXB object. This is why there is not a `set` method for the saSprocessnote property.

For example, to add a new item, do as follows:

```
    getSASprocessnote().add(newItem);
```

Objects of the following type(s) are allowed in the list `java.lang.Object`

getAny

`public List getAny()`

Gets the value of the any property.

This accessor method returns a reference to the live list, not a snapshot. Therefore any modification you make to the returned list will be present inside the JAXB object. This is why there is not a `set` method for the any property.

For example, to add a new item, do as follows:

```
    getAny().add(newItem);
```

Objects of the following type(s) are allowed in the list `org.w3c.dom.Element`

getSASprocessNameAttr

`public String getSASprocessNameAttr()`

Gets the value of the saSprocessNameAttr property.

(continued from last page)

Returns:
possible object is `java.lang.String`

setSASprocessNameAttr

`public void` **`setSASprocessNameAttr`**`(String value)`

Sets the value of the saSprocessNameAttr property.

Parameters:
`value` - allowed object is `java.lang.String`

net.smallangles.cansas1d
Class SASrootType

```
java.lang.Object
   |
   +-net.smallangles.cansas1d.SASrootType
```

public class **SASrootType**
extends Object

Java class for SASrootType complex type.

The following schema fragment specifies the expected content contained within this class.

```
 <complexType name="SASrootType">
   <complexContent>
     <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
       <sequence>
         <element name="SASentry" type="{cansas1d/1.0}SASentryType" maxOccurs="unbounded"/>
       </sequence>
       <attribute name="version" use="required"
type="{http://www.w3.org/2001/XMLSchema}string" fixed="1.0" />
     </restriction>
   </complexContent>
 </complexType>
```

Field Summary

protected	saSentry
protected	version

Constructor Summary

public	SASrootType()

Method Summary

List	getSASentry() Gets the value of the saSentry property.
String	getVersion() Gets the value of the version property.
void	setVersion(String value) Sets the value of the version property.

Methods inherited from class `java.lang.Object`

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait,
wait
```

Fields

saSentry

```
protected java.util.List saSentry
```

version

```
protected java.lang.String version
```

Constructors

SASrootType

```
public SASrootType()
```

Methods

getSASentry

```
public List getSASentry()
```

Gets the value of the saSentry property.

This accessor method returns a reference to the live list, not a snapshot. Therefore any modification you make to the returned list will be present inside the JAXB object. This is why there is not a `set` method for the saSentry property.

For example, to add a new item, do as follows:

```
    getSASentry().add(newItem);
```

Objects of the following type(s) are allowed in the list `SASentryType`

getVersion

```
public String getVersion()
```

Gets the value of the version property.

Returns:
possible object is `java.lang.String`

setVersion

```
public void setVersion(String value)
```

Sets the value of the version property.

Parameters:

`value` - allowed object is `java.lang.String`

net.smallangles.cansas1d
Class SASsampleType

```
java.lang.Object
   |
   +-net.smallangles.cansas1d.SASsampleType
```

public class **SASsampleType**
extends Object

Java class for SASsampleType complex type.

The following schema fragment specifies the expected content contained within this class.

```
 <complexType name="SASsampleType">
   <complexContent>
     <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
       <sequence>
         <element name="ID" type="{http://www.w3.org/2001/XMLSchema}string"/>
         <element name="thickness" type="{cansas1d/1.0}floatUnitType" minOccurs="0"/>
         <element name="transmission" type="{http://www.w3.org/2001/XMLSchema}float"
minOccurs="0"/>
         <element name="temperature" type="{cansas1d/1.0}floatUnitType" minOccurs="0"/>
         <element name="position" type="{cansas1d/1.0}positionType" minOccurs="0"/>
         <element name="orientation" type="{cansas1d/1.0}orientationType" minOccurs="0"/>
         <element name="details" type="{http://www.w3.org/2001/XMLSchema}anyType"
maxOccurs="unbounded" minOccurs="0"/>
         <any/>
       </sequence>
       <attribute name="name" type="{http://www.w3.org/2001/XMLSchema}string" default="" />
     </restriction>
   </complexContent>
 </complexType>
```

Field Summary

protected	any
protected	details
protected	id
protected	name
protected	orientation
protected	position

protected	temperature
protected	thickness
protected	transmission

Constructor Summary

public	SASsampleType()

Method Summary

List	getAny() Gets the value of the any property.
List	getDetails() Gets the value of the details property.
String	getID() Gets the value of the id property.
String	getName() Gets the value of the name property.
OrientationType	getOrientation() Gets the value of the orientation property.
PositionType	getPosition() Gets the value of the position property.
FloatUnitType	getTemperature() Gets the value of the temperature property.
FloatUnitType	getThickness() Gets the value of the thickness property.
Float	getTransmission() Gets the value of the transmission property.
void	setID(String value) Sets the value of the id property.
void	setName(String value) Sets the value of the name property.
void	setOrientation(OrientationType value) Sets the value of the orientation property.
void	setPosition(PositionType value) Sets the value of the position property.
void	setTemperature(FloatUnitType value) Sets the value of the temperature property.
void	setThickness(FloatUnitType value) Sets the value of the thickness property.

void	setTransmission(Float value) Sets the value of the transmission property.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

id

protected java.lang.String **id**

thickness

protected net.smallangles.cansas1d.FloatUnitType **thickness**

transmission

protected java.lang.Float **transmission**

temperature

protected net.smallangles.cansas1d.FloatUnitType **temperature**

position

protected net.smallangles.cansas1d.PositionType **position**

orientation

protected net.smallangles.cansas1d.OrientationType **orientation**

details

protected java.util.List **details**

any

protected java.util.List **any**

(continued from last page)

name

`protected java.lang.String name`

Constructors

SASsampleType

`public SASsampleType()`

Methods

getID

`public String getID()`

Gets the value of the id property.

Returns:
possible object is `java.lang.String`

setID

`public void setID(String value)`

Sets the value of the id property.

Parameters:
`value` - allowed object is `java.lang.String`

getThickness

`public FloatUnitType getThickness()`

Gets the value of the thickness property.

Returns:
possible object is `FloatUnitType`

setThickness

`public void setThickness(FloatUnitType value)`

Sets the value of the thickness property.

Parameters:
`value` - allowed object is `FloatUnitType`

getTransmission

`public Float getTransmission()`

(continued from last page)

Gets the value of the transmission property.

Returns:
possible object is `java.lang.Float`

setTransmission

`public void setTransmission(Float value)`

Sets the value of the transmission property.

Parameters:
`value` - allowed object is `java.lang.Float`

getTemperature

`public FloatUnitType getTemperature()`

Gets the value of the temperature property.

Returns:
possible object is `FloatUnitType`

setTemperature

`public void setTemperature(FloatUnitType value)`

Sets the value of the temperature property.

Parameters:
`value` - allowed object is `FloatUnitType`

getPosition

`public PositionType getPosition()`

Gets the value of the position property.

Returns:
possible object is `PositionType`

setPosition

`public void setPosition(PositionType value)`

Sets the value of the position property.

Parameters:
`value` - allowed object is `PositionType`

getOrientation

`public OrientationType getOrientation()`

Gets the value of the orientation property.

Returns:
possible object is `OrientationType`

setOrientation

`public void setOrientation(OrientationType value)`

Sets the value of the orientation property.

Parameters:
`value` - allowed object is `OrientationType`

getDetails

`public List getDetails()`

Gets the value of the details property.

This accessor method returns a reference to the live list, not a snapshot. Therefore any modification you make to the returned list will be present inside the JAXB object. This is why there is not a `set` method for the details property.

For example, to add a new item, do as follows:

```
    getDetails().add(newItem);
```

Objects of the following type(s) are allowed in the list `java.lang.Object`

getAny

`public List getAny()`

Gets the value of the any property.

This accessor method returns a reference to the live list, not a snapshot. Therefore any modification you make to the returned list will be present inside the JAXB object. This is why there is not a `set` method for the any property.

For example, to add a new item, do as follows:

```
    getAny().add(newItem);
```

Objects of the following type(s) are allowed in the list `org.w3c.dom.Element`

getName

`public String getName()`

Gets the value of the name property.

Returns:
possible object is `java.lang.String`

(continued from last page)

setName

`public void **setName**(String value)`

Sets the value of the name property.

Parameters:

`value` - allowed object is `java.lang.String`

net.smallangles.cansas1d
Class SASsourceType

```
java.lang.Object
   |
   +-net.smallangles.cansas1d.SASsourceType
```

public class **SASsourceType**
extends Object

Java class for SASsourceType complex type.

The following schema fragment specifies the expected content contained within this class.

```
 <complexType name="SASsourceType">
   <complexContent>
     <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
       <sequence>
         <element name="radiation" type="{http://www.w3.org/2001/XMLSchema}string"/>
         <element name="beam_size" type="{cansas1d/1.0}positionType" minOccurs="0"/>
         <element name="beam_shape" type="{http://www.w3.org/2001/XMLSchema}string"
minOccurs="0"/>
         <element name="wavelength" type="{cansas1d/1.0}floatUnitType" minOccurs="0"/>
         <element name="wavelength_min" type="{cansas1d/1.0}floatUnitType" minOccurs="0"/>
         <element name="wavelength_max" type="{cansas1d/1.0}floatUnitType" minOccurs="0"/>
         <element name="wavelength_spread" type="{cansas1d/1.0}floatUnitType" minOccurs="0"/>
       </sequence>
       <attribute name="name" type="{http://www.w3.org/2001/XMLSchema}string" default="" />
     </restriction>
   </complexContent>
 </complexType>
```

Field Summary

protected	beamShape
protected	beamSize
protected	name
protected	radiation
protected	wavelength
protected	wavelengthMax
protected	wavelengthMin

protected	wavelengthSpread

Constructor Summary

public	SASsourceType()

Method Summary

String	getBeamShape() Gets the value of the beamShape property.
PositionType	getBeamSize() Gets the value of the beamSize property.
String	getName() Gets the value of the name property.
String	getRadiation() Gets the value of the radiation property.
FloatUnitType	getWavelength() Gets the value of the wavelength property.
FloatUnitType	getWavelengthMax() Gets the value of the wavelengthMax property.
FloatUnitType	getWavelengthMin() Gets the value of the wavelengthMin property.
FloatUnitType	getWavelengthSpread() Gets the value of the wavelengthSpread property.
void	setBeamShape(String value) Sets the value of the beamShape property.
void	setBeamSize(PositionType value) Sets the value of the beamSize property.
void	setName(String value) Sets the value of the name property.
void	setRadiation(String value) Sets the value of the radiation property.
void	setWavelength(FloatUnitType value) Sets the value of the wavelength property.
void	setWavelengthMax(FloatUnitType value) Sets the value of the wavelengthMax property.
void	setWavelengthMin(FloatUnitType value) Sets the value of the wavelengthMin property.
void	setWavelengthSpread(FloatUnitType value) Sets the value of the wavelengthSpread property.

Methods inherited from class `java.lang.Object`

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

radiation

protected java.lang.String **radiation**

beamSize

protected net.smallangles.cansas1d.PositionType **beamSize**

beamShape

protected java.lang.String **beamShape**

wavelength

protected net.smallangles.cansas1d.FloatUnitType **wavelength**

wavelengthMin

protected net.smallangles.cansas1d.FloatUnitType **wavelengthMin**

wavelengthMax

protected net.smallangles.cansas1d.FloatUnitType **wavelengthMax**

wavelengthSpread

protected net.smallangles.cansas1d.FloatUnitType **wavelengthSpread**

name

protected java.lang.String **name**

Constructors

(continued from last page)

SASsourceType

`public SASsourceType()`

Methods

getRadiation

`public String getRadiation()`

Gets the value of the radiation property.

Returns:
possible object is `java.lang.String`

---

setRadiation

`public void setRadiation(String value)`

Sets the value of the radiation property.

Parameters:
`value` - allowed object is `java.lang.String`

---

getBeamSize

`public PositionType getBeamSize()`

Gets the value of the beamSize property.

Returns:
possible object is `PositionType`

---

setBeamSize

`public void setBeamSize(PositionType value)`

Sets the value of the beamSize property.

Parameters:
`value` - allowed object is `PositionType`

---

getBeamShape

`public String getBeamShape()`

Gets the value of the beamShape property.

Returns:
possible object is `java.lang.String`

---

setBeamShape

`public void setBeamShape(String value)`

(continued from last page)

Sets the value of the beamShape property.

Parameters:
`value` - allowed object is `java.lang.String`

getWavelength

`public FloatUnitType getWavelength()`

Gets the value of the wavelength property.

Returns:
possible object is `FloatUnitType`

setWavelength

`public void setWavelength(FloatUnitType value)`

Sets the value of the wavelength property.

Parameters:
`value` - allowed object is `FloatUnitType`

getWavelengthMin

`public FloatUnitType getWavelengthMin()`

Gets the value of the wavelengthMin property.

Returns:
possible object is `FloatUnitType`

setWavelengthMin

`public void setWavelengthMin(FloatUnitType value)`

Sets the value of the wavelengthMin property.

Parameters:
`value` - allowed object is `FloatUnitType`

getWavelengthMax

`public FloatUnitType getWavelengthMax()`

Gets the value of the wavelengthMax property.

Returns:
possible object is `FloatUnitType`

setWavelengthMax

`public void setWavelengthMax(FloatUnitType value)`

Sets the value of the wavelengthMax property.

Parameters:
`value` - allowed object is `FloatUnitType`

getWavelengthSpread

`public FloatUnitType getWavelengthSpread()`

Gets the value of the wavelengthSpread property.

Returns:
possible object is `FloatUnitType`

setWavelengthSpread

`public void setWavelengthSpread(FloatUnitType value)`

Sets the value of the wavelengthSpread property.

Parameters:
`value` - allowed object is `FloatUnitType`

getName

`public String getName()`

Gets the value of the name property.

Returns:
possible object is `java.lang.String`

setName

`public void setName(String value)`

Sets the value of the name property.

Parameters:
`value` - allowed object is `java.lang.String`

net.smallangles.cansas1d
Class TermType

```
java.lang.Object
   |
   +-net.smallangles.cansas1d.TermType
```

public class **TermType**
extends Object

Java class for termType complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="termType">
  <simpleContent>
    <extension base="<http://www.w3.org/2001/XMLSchema>string">
      <attribute name="name" type="{http://www.w3.org/2001/XMLSchema}string" default="" />
      <attribute name="unit" type="{http://www.w3.org/2001/XMLSchema}string" />
    </extension>
  </simpleContent>
</complexType>
```

Field Summary

protected	name
protected	unit
protected	value

Constructor Summary

public	TermType()

Method Summary

String	getName() Gets the value of the name property.
String	getUnit() Gets the value of the unit property.
String	getValue() Gets the value of the value property.
void	setName(String value) Sets the value of the name property.

void	setUnit(String value) Sets the value of the unit property.
void	setValue(String value) Sets the value of the value property.

Methods inherited from class `java.lang.Object`

`clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Fields

value

`protected java.lang.String value`

name

`protected java.lang.String name`

unit

`protected java.lang.String unit`

Constructors

TermType

`public TermType()`

Methods

getValue

`public String getValue()`

Gets the value of the value property.

Returns:
possible object is `java.lang.String`

setValue

`public void setValue(String value)`

Sets the value of the value property.

(continued from last page)

Parameters:
`value` - allowed object is `java.lang.String`

getName

`public String getName()`

Gets the value of the name property.

Returns:
possible object is `java.lang.String`

setName

`public void setName(String value)`

Sets the value of the name property.

Parameters:
`value` - allowed object is `java.lang.String`

getUnit

`public String getUnit()`

Gets the value of the unit property.

Returns:
possible object is `java.lang.String`

setUnit

`public void setUnit(String value)`

Sets the value of the unit property.

Parameters:
`value` - allowed object is `java.lang.String`

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