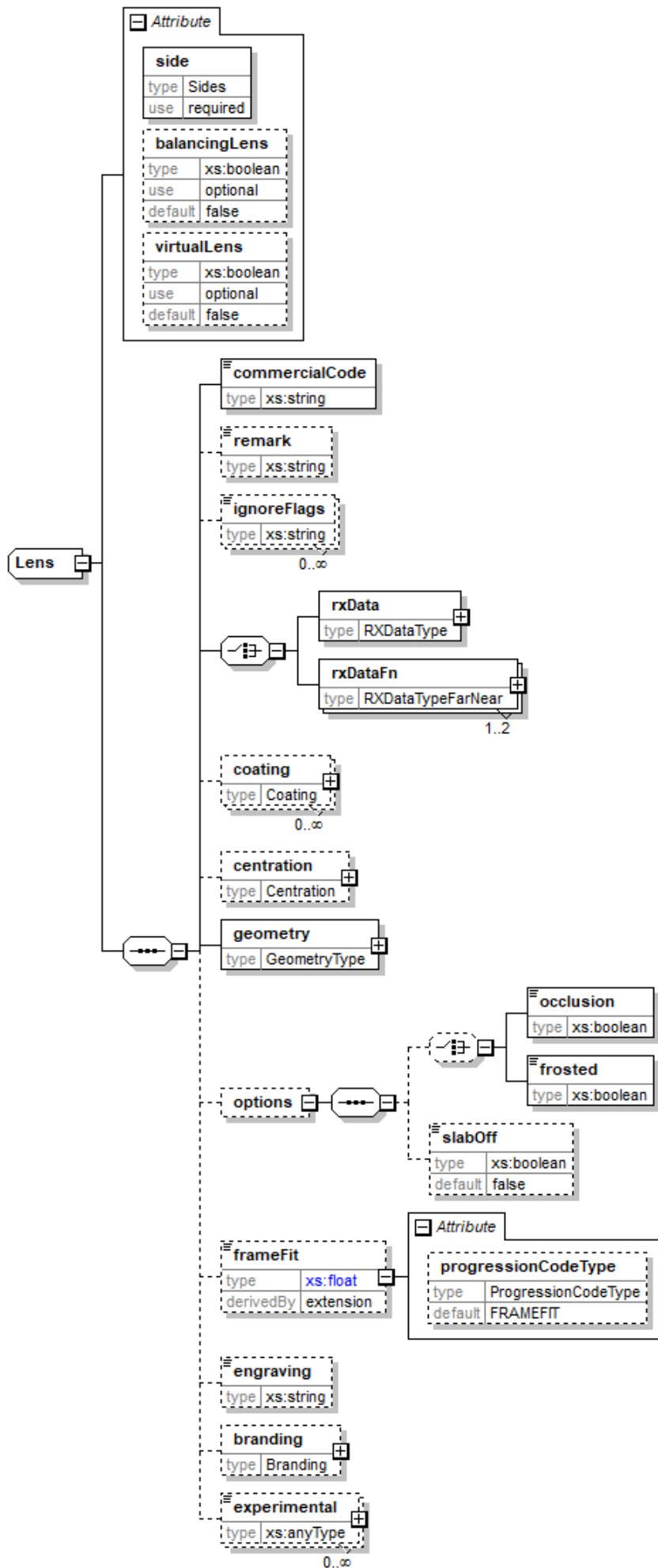


# lens (Lens)

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|                    |                                  |
|--------------------|----------------------------------|
| <b>side</b>        |                                  |
| <b>type</b>        | Sides                            |
| <b>use</b>         | required                         |
| <b>description</b> | the side of eye the lens are for |

|                      |                                                                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>balancingLens</b> |                                                                                                                                              |
| <b>type</b>          | boolean                                                                                                                                      |
| <b>use</b>           | optional                                                                                                                                     |
| <b>default</b>       | false                                                                                                                                        |
| <b>description</b>   | only allowed at one side; the supplier should select a single vision lens for this side that fits to the multi vision lens of the other side |

|                    |                                                                                                                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>virtualLens</b> |                                                                                                                                                                                                  |
| <b>type</b>        | boolean                                                                                                                                                                                          |
| <b>use</b>         | optional                                                                                                                                                                                         |
| <b>default</b>     | false                                                                                                                                                                                            |
| <b>description</b> | only allowed at one side; if a single lens is ordered and the data of the other side is necessary for calculation; if virtualLens is set to true, the attribute quantity of lens is set to 0 (?) |

|                       |                                                                             |
|-----------------------|-----------------------------------------------------------------------------|
| <b>commercialCode</b> |                                                                             |
| <b>type</b>           | string                                                                      |
| <b>occurs</b>         | 1                                                                           |
| <b>description</b>    | productcode of the lens like in product catalog (e.g. B2BOptic LensCatalog) |

|                    |                          |
|--------------------|--------------------------|
| <b>remark</b>      |                          |
| <b>type</b>        | string                   |
| <b>occurs</b>      | 0..1                     |
| <b>description</b> | remark for a single lens |

|                    |                                                                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ignoreFlags</b> |                                                                                                                                                  |
| <b>type</b>        | string                                                                                                                                           |
| <b>occurs</b>      | 0..n                                                                                                                                             |
| <b>description</b> | special codes to the receiver that an error should not be raised (e.g. diameter too small); these flags should be explicitly set by the customer |

|                    |                                          |
|--------------------|------------------------------------------|
| <b>rxData</b>      |                                          |
| <b>type</b>        | RXDataType                               |
| <b>occurs</b>      | 1 or if rxDataFn is present then 0       |
| <b>description</b> | there are refraction values only for far |

|                    |                                                                                                               |
|--------------------|---------------------------------------------------------------------------------------------------------------|
| <b>rxDataFn</b>    |                                                                                                               |
| <b>type</b>        | RXDataTypeFarNear                                                                                             |
| <b>occurs</b>      | 1..2 or if rxData is present then 0                                                                           |
| <b>description</b> | there are refraction values only for near or values for both far and near at the same time without a addition |

|                    |                                       |
|--------------------|---------------------------------------|
| <b>coating</b>     |                                       |
| <b>type</b>        | Coating                               |
| <b>occurs</b>      | 0..n                                  |
| <b>description</b> | the coatings and options for the lens |

|                   |            |
|-------------------|------------|
| <b>centration</b> |            |
| <b>type</b>       | Centration |
| <b>occurs</b>     | 0..1       |

|                                                    |                                                             |
|----------------------------------------------------|-------------------------------------------------------------|
| <b>centration</b>                                  |                                                             |
| <b>description</b>                                 | centration data                                             |
| <b>geometry</b>                                    |                                                             |
| <b>type</b>                                        | GeometryType                                                |
| <b>occurs</b>                                      | 1                                                           |
| <b>description</b>                                 |                                                             |
| <b>options</b>                                     |                                                             |
| <b>occurs</b>                                      | 0..1                                                        |
| <b>occlusion (element of options)</b>              |                                                             |
| <b>type</b>                                        | boolean                                                     |
| <b>occurs</b>                                      | 0..1, only allowed if frosted not present                   |
| <b>description</b>                                 |                                                             |
| <b>frosted (element of options)</b>                |                                                             |
| <b>type</b>                                        | boolean                                                     |
| <b>occurs</b>                                      | 0..1, only allowed if occlusion not present                 |
| <b>description</b>                                 |                                                             |
| <b>slabOff (element of options)</b>                |                                                             |
| <b>type</b>                                        | boolean                                                     |
| <b>default</b>                                     | false                                                       |
| <b>occurs</b>                                      | 0..1                                                        |
| <b>description</b>                                 |                                                             |
| <b>frameFit</b>                                    |                                                             |
| <b>type</b>                                        | float                                                       |
| <b>unity</b>                                       | ?                                                           |
| <b>occurs</b>                                      | 0..1                                                        |
| <b>description</b>                                 | size correction for the length of progression zone          |
| <b>progressionCodeType (attribute of frameFit)</b> |                                                             |
| <b>type</b>                                        | ProgressionCodeType                                         |
| <b>use</b>                                         | optional                                                    |
| <b>default</b>                                     | FRAMEFIT                                                    |
| <b>description</b>                                 | the type of framefit code                                   |
| <b>engraving</b>                                   |                                                             |
| <b>type</b>                                        | string                                                      |
| <b>occurs</b>                                      | 0..1                                                        |
| <b>description</b>                                 | individual gravure text                                     |
| <b>branding</b>                                    |                                                             |
| <b>type</b>                                        | Branding                                                    |
| <b>occurs</b>                                      | 0..1                                                        |
| <b>description</b>                                 | the trademark of the supplier is engraved to the lens       |
| <b>experimental</b>                                |                                                             |
| <b>type</b>                                        | anyType                                                     |
| <b>occurs</b>                                      | 0..n                                                        |
| <b>description</b>                                 | deprecated; only for internal tests within a company system |

```
<xs:complexType name="Lens">
  <xs:sequence>
```

```

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<xs:element name="remark" type="xs:string" minOccurs="0"/>
<xs:element minOccurs="0" maxOccurs="unbounded" name="ignoreFlags"
type="xs:string" />
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  <xs:element name="rxData" type="RXDataType" />
  <xs:element maxOccurs="2" name="rxDataFn" type="RXDataTypeFarNear" />
</xs:choice>
<xs:element minOccurs="0" maxOccurs="unbounded" name="coating"
type="Coating" />
<xs:element minOccurs="0" name="centration" type="Centration" />
<xs:element name="geometry" type="GeometryType" />
<xs:element minOccurs="0" name="options">
  <xs:complexType>
    <xs:sequence>
      <xs:choice minOccurs="0">
        <xs:element name="occlusion" type="xs:boolean" />
        <xs:element name="frosted" type="xs:boolean" />
      </xs:choice>
      <xs:element minOccurs="0" default="false" name="slabOff"
type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="frameFit" minOccurs="0">
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="xs:float">
        <xs:attribute name="progressionCodeType"
type="ProgressionCodeType" default="FRAMEFIT"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
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<xs:element minOccurs="0" name="branding" type="Branding" />
<xs:element minOccurs="0" maxOccurs="unbounded" name="experimental"
type="xs:anyType" />
</xs:sequence>
<xs:attribute name="side" type="Sides" use="required" />
<xs:attribute default="false" name="balancingLens" type="xs:boolean"
use="optional" />
<xs:attribute default="false" name="virtualLens" type="xs:boolean"
use="optional" />
</xs:complexType>

```

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Last update: **2021/06/18 10:58**

