Advanced eddy-current sensor for the best mould level control - Suspended type

The AVEMIS XLEV-S suspended eddy-current mould level sensor provides accurate measurement and short response time for improved automatic level control performances.

**XLEV-S Features**
- Precise measurement of steel level in mould that is not influenced by casting powder
- No more health issue due to exposure to radioactive source
- Fully digital signal processing with built-in Probus DP - Ethernet/IP interface
- Dual-channel processing unit with possibility to combine different type of sensors
- Easy and fast calibration procedure
- Flexible location of processing unit panel with cable length up to 120 m without pre-amplifier and easy relocation of HMI

**Optional fiber protection sleeve**
- Enhanced mechanical protection
- High-thermal protection

**XSCH85-MTL XSCH55-1 XSCH35-1 XSCH30-MTL XSRH3672-1**

<table>
<thead>
<tr>
<th>Model</th>
<th>Outside Diameter (*)</th>
<th>Measuring range (Level Control)</th>
<th>Measuring range (Auto Start)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSCH85-MTL</td>
<td>85 mm</td>
<td>0~200 mm</td>
<td>0~250 mm</td>
</tr>
<tr>
<td>XSCH55-1</td>
<td>55 mm</td>
<td>0~150 mm</td>
<td>0~200 mm</td>
</tr>
<tr>
<td>XSCH35-1</td>
<td>35 mm</td>
<td>0~100 mm</td>
<td>0~180 mm</td>
</tr>
<tr>
<td>XSCH30-MTL</td>
<td>30 mm</td>
<td>0~100 mm</td>
<td>0~180 mm</td>
</tr>
<tr>
<td>XSRH3672-1</td>
<td>Rect. 36x72</td>
<td>0~150 mm</td>
<td>0~200 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fiber protection</th>
<th>Typical applications</th>
<th>Slab Thickness &gt;250 mm</th>
<th>Slab Thickness &gt;150 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>(ODX/IDX)</td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
</tr>
<tr>
<td>XSFPS35-1</td>
<td>77/57 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XFPS55-1</td>
<td>50/38 mm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**XSCH**
- Semi-Auto sensor arm
- Automatic head retraction with manual positioning, 45° arm and 90° head combined motions
- Compact design with arm length up to 2000 mm
- Large bloom & Thin slabs

**XSRH**
- Rotation pneumatic slewing manipulator
- Automatic positioning with 90° arm and 90° head combined motions
- Compact design with arm length up to 2000 mm
- Large bloom & Thin slabs

**XSMA**
- Manual Arm
- Simple and repeatable positioning
- Quick fixing

**XS2A**
- Semi Auto sensor arm
- Automatic head retraction with manual positioning, 45° arm and 90° head combined motions
- Compact design with arm length up to 2000 mm
- Large bloom & Thin slabs

**XTRM**
- Linear + Rotation pneumatic manipulator
- Automatic positioning with up to 1150 mm linear stroke and 90° rotation
- Mounted on tundish car or on casting floor with pivoting support
- Slab casters with up to 3m between pivot and sensor head

**Mould Level Control with XLEV-S**
- Precise mould level
- Enhanced steel quality
- Reliable performance
Advanced eddy-current sensor for the best mould level control - Suspended type

The AVEMIS XLEV-S suspended eddy-current mould level sensor provides accurate measurement and short response time for improved automatic level control performances.

**XLEV-S features**
- Precise measurement of steel level in mould that is not influenced by casting powder
- No more health issue due to exposure to radioactive source
- Compatible with electromagnetic stirrers and brakes
- Fully digital signal processing with built-in Profinet-DP - Ethernet/IP interface
- Dual-channel processing unit with possibility to combine different type of sensors
- Easy and fast calibration procedure
- Flexible location of processing unit panel with cable length up to 120 m without pre-amplifier and easy relocation of HMI

Optional fiber protection sleeve
- Enhanced mechanical protection
- High-thermal protection

**Mould Level Control with XLEV-S**
- Precise mould level
- Enhanced steel quality
- Reliable performance

**XSCH85-MTL XSCH55-1 XSCH35-1 XSCH30-MTL XSRH3672-1**

<table>
<thead>
<tr>
<th>Model</th>
<th>Outside Diameter (*)</th>
<th>Measuring range (Level Control)</th>
<th>Measuring range (AutoStart)</th>
<th>Fiber protection</th>
<th>Typical applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSCH85-MTL</td>
<td>85 mm</td>
<td>0~200 mm</td>
<td>0~250 mm</td>
<td>N.A.</td>
<td>Slab thickness &gt;100 mm</td>
</tr>
<tr>
<td>XSCH55-1</td>
<td>55 mm</td>
<td>0~150 mm</td>
<td>0~200 mm</td>
<td>OD/ID 77/57 mm</td>
<td>Blanks &gt;200x200, Slab thickness &gt;70 mm</td>
</tr>
<tr>
<td>XSCH35-1</td>
<td>35 mm</td>
<td>0~100 mm</td>
<td>0~180 mm</td>
<td>OD/ID 50/38 mm</td>
<td>Blanks &gt;180x180, Thin slab &gt;90 mm</td>
</tr>
<tr>
<td>XSCH30-MTL</td>
<td>30 mm</td>
<td>0~100 mm</td>
<td>0~180 mm</td>
<td>N.A.</td>
<td>N.A.</td>
</tr>
</tbody>
</table>

**NOTE:** * Without optional fiber protection

**AVEMIS XLEV-S Sensor Heads**

- **XS2A Semi-Auto sensor Arm**
  - Automatic head retraction with manual positioning, 45° arm and 90° head combined motions
  - Compact design with arm length up to 2000 mm
  - Small bloom & Thin Slab casters

- **XTRM Linear+ Rotation pneumatic manipulator**
  - Automatic positioning with up to 1150 mm linear stroke and 90° rotation
  - Mounted on tundish car or on casting floor with pivoting support
  - Slab-casters with up to 3m between pivot and sensor head

- **XSRM Rotation pneumatic clamping manipulator**
  - Automatic positioning with 90° arm and 90° head combined motions
  - Compact design with arm length up to 2000 mm
  - Large bloom & Slab-casters

- **XSMA Manual Arm**
  - Simple and repeatable positioning
  - Quick fixing
For more information on this product and on our complete package of solutions please contact our local service center:

VESUVIUS ADVANCED CERAMICS CHINA CO., LTD
221 Xing Ming Street
China-Singapore Suzhou Industrial Park
Suzhou 215021, Jiangsu Province
P.R. of China
Tel.: +86 512 6741 2088
Fax: +86 512 6741 1700

VESUVIUS INDIA LTD
P 104, Taratala Road
700088 Calcutta, India
Tel.: +91 33 240 10 234
Fax: +91 33 240 11 235

VESUVIUS USA CORP.
P.O. Box 4014
1404 Newton Drive
Champaign, IL 61822
USA
Tel.: +1 217 351 5000
Fax: +1 217 351 5031

VESUVIUS REFRATARIOS, LTDA
Av. Brasil 99 550
Distrito Industrial de Falmace
CP 22300-400 Camp Grande
Rio de Janeiro, Brazil
Tel.: +55 21 2414 0600
Fax: +55 21 2414 0648

VESUVIUS GROUP S.A.
Rue de Doisneau, 17
7111 Liège, Belgium
Tel.: +32 4 400 810
Fax: +32 4 400 8110

VESUVIUS reserves the right to modify and/or improve the equipment as described and specified in this leaflet, at any time according to the state-of-art.

© copyright Vesuvius Group S.A. 2013-2015 all rights reserved. All product names in this brochure are trademarks or registered trademarks of Vesuvius plc group of companies.

AVEMIS Eddy Current Mould Level Sensor
(Suspended Type)