



SENSORMATE for SENSOR SOLUTIONS

Strain and Force are the main parameters used to control manufacturing machines, especially Injection Molding and Die Casting Machines.

Our innovative sensors and systems measure exactly this parameters with high accuracy and performance, thus helping to achieve continuously higher quality levels.

Many machine manufacturers worldwide trust our products by using them on there machines as well as in the manufacturing process.

Our commitment for solutions has led to patents in many countries, e.g. China, Japan, Germany, Taiwan and U.S.A



FOR MOLDERS:

- A** CLAMPING FORCE MEASUREMENT
- B** MACHINE SETUP
- C** INJECTION PRESSURE
- D** CLAMPING FORCE ONLINE CONTROL

The sensors can be used for:

- Quality control
- Machine alignment protocols
- Machine monitoring (online)
- Service and Maintenance
- Research and development

OUR SENSORS FOR YOUR QUALITY PRODUCTION!

SML-SB **D**

Technology with pressed-on strain gages for easy mounting.

APPLICATIONS:

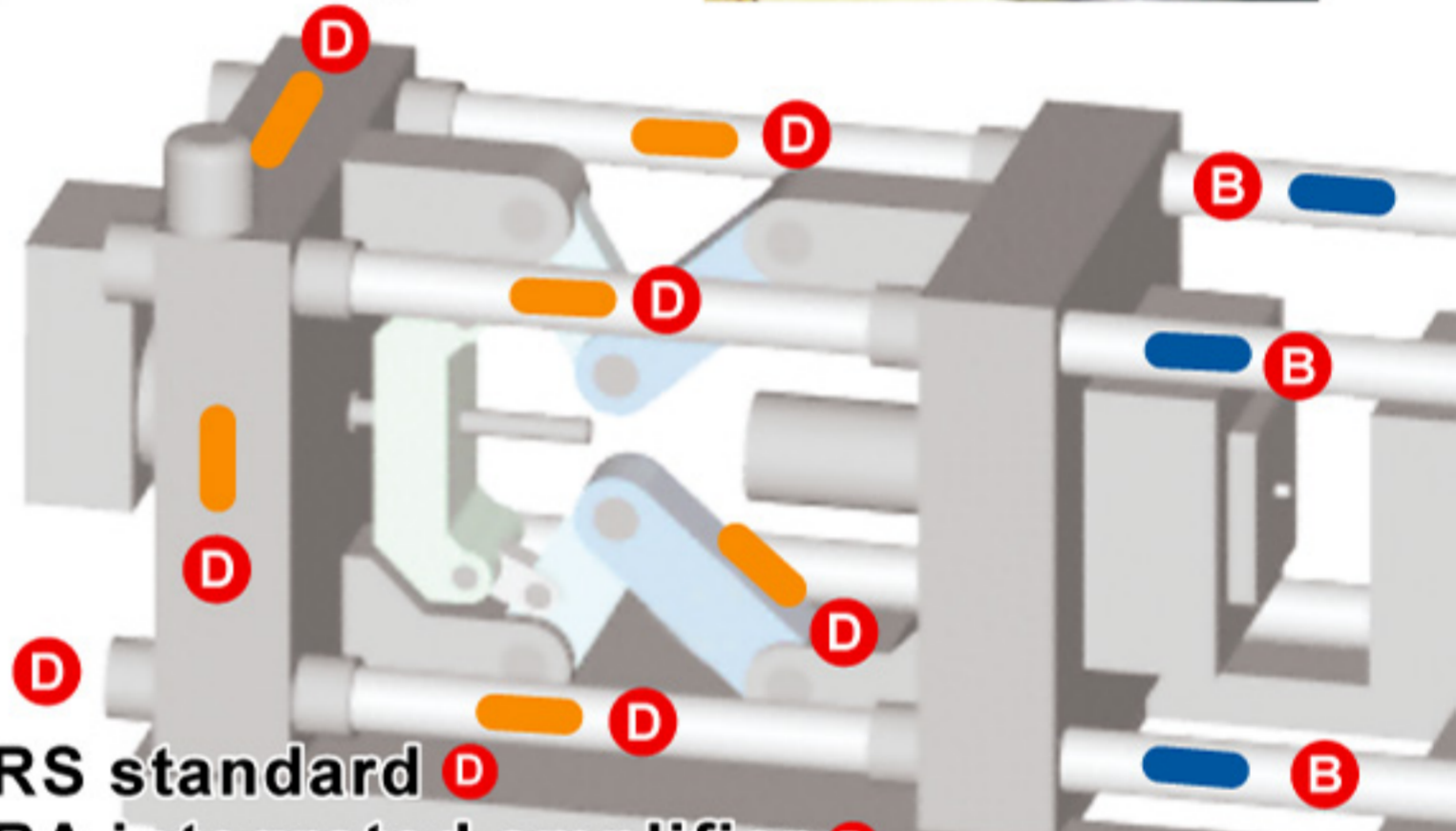
- Clamping force measurement, can be mounted on platen or toggle system
- Load control on presses and other cyclical machines
- Strain measurement instead of bonding strain gages
- Mold protection optional available

ADVANTAGES:

- > With integrated amplifier, Output mA or Volt, EMC-Safe (CE)
- > 1% accuracy without calibration, fast and easy mounting
- > Can be mounted in the smallest area
- > Replaceable without recalibration
- > Excellent price/performance ratio

TECHNICAL DATA:

Dimension:	22x16x70mm
Measuring Range	0...500 $\mu\epsilon$ (FS)
Output FS	10V or 4...20mA
Power Supply	15-32VDC
Accuracy	< 0.5%



SML-RS standard **D** SML-RA integrated amplifier **D**

Measuring Strain Ring for strain measurement

The measuring StrainRing type SML-RS, SML-RA measures the strain on tie-bars or round profiles through the built-in strain gauges.

These measuring Strain Ring can be adapted to different tie bar diameters. The applied press-on technology allows to mount and dismount this measuring system without to destroy the used strain gauge bonding or similar operations.

There have 2 version:



SML-RS standard type SML-RA integrated amplifier

Due to the simple way of mounting these rings, as well as to there high precision and industry confirm execution, these measuring Strain Rings can be used for strain and force measurements respectively by machine manufacturers.

Features:

- Very easy installation through two M8 screws
- IP-65, M12 industry confirm connector
- Accuracy: 1%
- Measuring range: +/-1000 $\mu\epsilon$
- Uniform k-factor
- Idea for online clamping force control SML-RS with separate amplifier or SML-RA integrated amplifier.

