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Länge, Breite, Geschwindigkeit
Dicke berührungsfrei messen

ASCOspeed
Technical Questionary

Your Contact:	Date:
	Project number.:

Inquiry form for metal applications

Please fill this form and return it to MICRO-EPSILON Optronic.

Customer information	
Company:	
Department:	
Name:	
Title:	
Address:	
Phone	
FAX	
E-Mail:	

Measurement task	
Which value has to be measured?	❑ **velocity** ❑ **length** ❑ **velocity and length**
What are the measurement ranges?	❑ **velocity:** min: [m/s] max: [m/s] ❑ **length:** min: [m] max: [m]
Working distance:	❑ **300 ± 15 mm (standard)** ❑ **300 ± 30 mm (wide)**
What is the measurement task? (e.g. length measurement of coils, control of cutting processes, process control,...) see Appendix A	
What application? (e.g. cutting line, strip slitting line, finishing plant, ...)	
Project information	❑ **new installation (planning a new line)** ❑ **modernization (revamping of an existing line)** ❑ **substitute of encoder** ❑ **mass flow application** ❑ **other:**

Material information	
What material has to be measured?	❑ **aluminum** ❑ **copper** ❑ **steel** ❑ **other:**
Geometrical sizes of material	❑ **coils** (length max.: [m] min.: [m]) ❑ **plates** (length max.: [m] min.: [m])
Thickness range of material	**max.: [mm] min.: [mm]**
Width range of material	**max.: [mm] min.: [mm]**
Surface properties of material:	❑ **coated:** ❑ **rough, rusty** ❑ **glossy** ❑ **oily** ❑ **other:**
Material temperature:	**[°C]**
Measurement conditions	
Measurement place (e.g. close to rollers, inside the rolling mill, ...)	
Measurement direction	❑ **measurement from above the material** ❑ **measurement from below the material**
Measurement conditions	❑ **surrounding temperature:** **[°C]** ❑ **rolling liquid (oil)** ❑ **steam** ❑ **dust** ❑ **other:**
Plant/ machine information	
Name of plant/ machine:	
Producer of plant/ machine:	
Output requirements	
What output is required?	<u>standard:</u> ❑ **4 phases pulse output, max 500 kHz** ❑ **RS 232 interface** <u>interface version:</u> ❑ **analog output 4...20 mA** ❑ **additional 4 phase pulse output, max. 500 kHz** ❑ **RS422 output**
Special output requirements:	
Input requirements	
Inputs:	❑ **trigger input required** ❑ **direction input required** ❑ **synchronouse input required**
Interface requirements	
Is there a process control witch has to be connected to the ASCOspeed?	

Process information	
What kind of process? (rolling, cutting, slitting, ...)	
Special process conditions: (continuous process, service frequency for ASCOspeed	
Does the moving direction change?	☐ **yes** ☐ **no**
Direction detection necessary?	☐ **yes** ☐ **no**
Is a direction signal available from the process control?	☐ **yes** ☐ **no**
Does the material stop while measurement (stop and go process)?	☐ **yes** ☐ **no**
Are there experiences with other optically velocity/length measurement equipment? (product name, company, experiences,...)	

Please notice!

Following requirements are <u>necessary</u> for a successful measurement with the ASCOspeed gauge:

1. **keep correct working distance (300 mm)**
2. **the ASCOspeed has to "look" rectangular to the material surface**
3. **straighten the ASCOspeed exact to moving direction (note the arrow on the backside-connector cape)**
4. **protect the ASCOspeed against vibrations and mechanical shock**
5. **chose a measurement place where the material is guided very good**

Appendix A

Plant specification / application destination

☐ Rolling Mill / Skin Pass Mill

☐ Slitting Line

☐ Cut-To-Length Line / Flying Saw
    ☐ Exzentershear / flying shear
    ☐ Start/Stop-Mode
    ☐ accuracy in length: _____

☐ streching line / leveling line

☐ strip prozessing line (surface inspection line, recoiling line)

☐ Single sheet measurement (Start-Stop-Trigger required)
    ☐ required accuracy in length _____

☐ Tube inspection line (eddy current or ultrasonic)

☐ wire mill

☐ other _____