

## Load Cells

Single point load cells  
SIWAREX WL260 SP-S AB

### Load cell

#### Overview



The load cell is suitable for small to medium platform scales with one load cell and platform size up to 600 x 600 mm (23.62 x 23.62 inch) as well as for use in medium accuracy weighing machines of Class III with a max. division  $n_{\max} = 3\,000$ .

#### Design

The load cell is hermetically sealed.

#### Technical specifications

SIWAREX WL260 SP-S AB	
<b>Possible applications</b>	<ul style="list-style-type: none"> <li>Platform scales</li> <li>Belt scales</li> </ul>
<b>Type of construction</b>	Single point load cell
<b>Limits</b>	
Rated load $E_{\max}$	<ul style="list-style-type: none"> <li>50 kg (110.23 lb)</li> <li>75 kg (165.35 lb)</li> <li>100 kg (220.46 lb)</li> <li>150 kg (330.69 lb)</li> <li>200 kg (440.92 lb)</li> <li>300 kg (661.37 lb)</li> <li>500 kg (1 102.31 lb)</li> </ul>
Minimum initial loading $E_{\min}$	0 kg
Maximum working load $L_U$	150% $E_{\max}$
Breaking load $L_d$	300% $E_{\max}$
Safe side load $L_{Iq}$	100% $E_{\max}$
<b>Measurement characteristic values</b>	
Deflection $h_n$ at $E_{\max}$	< 1.22 mm (0.048 inch)
Rated characteristic value $C_n$	2.0 ± 0.2 mV/V
Tolerance $D_0$ of zero signal	< ± 2% $C_n$
Maximum scale interval $n_{Ic}$	3 000
Minimum scale interval $V_{\min}$	$E_{\max}/10\,000$
Combined error $F_{\text{comb}}$	± 0.02% $C_n$
Repeatability $F_v$	± 0.017% $C_n$
Creep error $F_{cr}$	± 0.02% $C_n$
• 30 min	
Temperature coefficient	
• Zero signal $T_{K0}$	0.017% $C_n/5\,K$
• Characteristic value $T_{Kc}$	0.014% $C_n/5\,K$
<b>Electrical characteristic values</b>	
Recommended input voltage	5 ... 12 V DC
Input resistance $R_e$	409 Ω ± 6 Ω
Output resistance $R_a$	350 Ω ± 3 Ω
Insulation resistance $R_{Is}$	5 000 MΩ at 50 V DC
<b>Connection and ambient conditions</b>	
Sensor material (DIN)	Aluminum
Maximum tightening torque of the fixing screws	35 ... 40 Nm
Rated temperature range $B_{Tn}$	-10 ... +40 °C (14 ... 104 °F)

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Operating temperature range $B_{Tu}$	-35 ... +65 °C (-31 ... +149 °F)
Storage temperature range $B_{Ts}$	-35 ... +65 °C (-31 ... +149 °F)
Degree of protection according to EN 60529, IEC 60529	IP65

#### Cable connection

Function	Color
• EXC + (supply +)	Red
• EXC - (supply -)	Black
• SIG + (measured signal +)	Green
• SIG - (measured signal -)	White
• Sense + (sensor cable +)	Blue
• Sense - (sensor cable -)	Brown
• Shield (not connected to the load cell body)	Transparent

#### Certificates and approvals

Accuracy class according to OIML R-60	C3 <sup>1)</sup>
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<sup>1)</sup> SIWAREX WL260 SP-S AB is not approved for legal-for-trade operation.

#### Selection and ordering data

Article No.

#### Load cell, type WL260 SP-S AB

Connecting cable 3 m (9.84 ft)

7MH5103-  
D 0 0

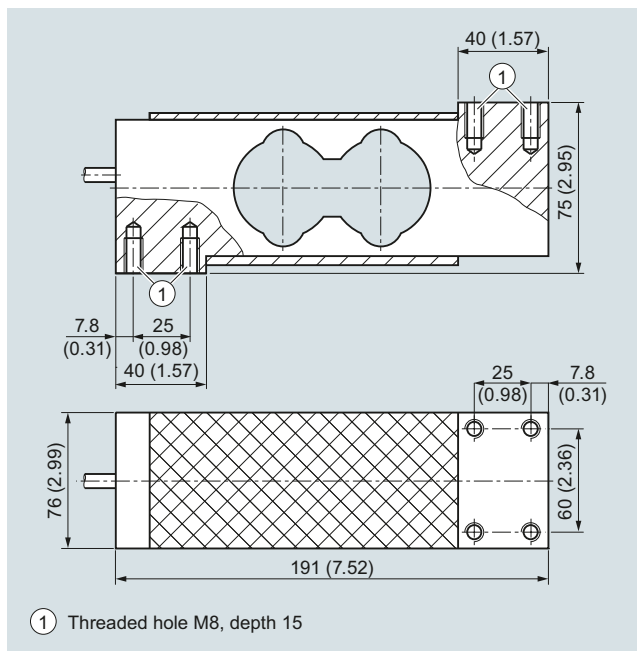
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.

#### Rated load

- 50 kg (110.23 lb)
- 75 kg (165.35 lb)
- 100 kg (220.46 lb)
- 150 kg (330.69 lb)
- 200 kg (440.92 lb)
- 300 kg (661.37 lb)
- 500 kg (1102.31 lb)

2 P  
2 S  
3 A  
3 E  
3 G  
3 K  
3 P

#### Dimensional drawings



SIWAREX WL 260 SP-S AB load cell, dimensions in mm (inch)