



PRESSURE SENSORS

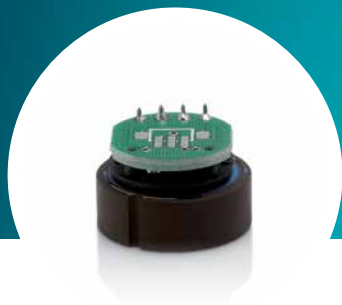
Product Range



▶ CPS 1184



▶ CPS 2184



▶ SPS 1000 Z



▶ SPS 3003

USA

FIRST IN SENSORS

metallux USA, Inc.

METALLUX – PRESSURE SENSORS

CPS 1184

PRESSURE SENSOR MONOLITH CERAMIC



Technology	Dimensions	Supply voltage	Output signal
Thick-film on ceramic	Ø 18 x 6.35 mm	3 – 30 V	1.5 – 5.3 mV/V

Pressure range p_n	Burst pressure	Pressure mode	Temperature range
1.6 – 600 bar	1.5 x p_n ... 2.5 x p_n	Gauge	Operating temperature: –40/+150 °C, compensated: +20/+85 °C

Electrical connections: solder pads (pitch, 1.27 mm, 2.54 mm), solder pins, flex
Special features: high chemical resistance, high long-term stability

CPS 1184 Z

PRESSURE SENSOR MONOLITH CERAMIC



Technology	Dimensions	Supply voltage	Output signal
Thick-film on ceramic	Ø 18 mm x max. 12 mm without plug	5 V	0.5 – 4.5 V (ratiometric) 4 – 20 mA

Pressure range p_n	Burst pressure	Pressure mode	Temperature range
1.6 – 600 bar	1.5 x p_n ... 2.5 x p_n	Gauge	Operating temperature: –40/+150 °C, compensated: +20/+85 °C

Electrical connections: solder pads, plug (JST)
Special features: high chemical resistance, high long-term stability

CPS 2184

PRESSURE SENSOR FLUSH MEMBRANE CERAMIC



Technology	Dimensions	Supply voltage	Output signal
Thick-film on ceramic	Ø 18 mm x max. 7.6 mm without pins	3 – 30 V	1.5 – 6.0 mV/V

Pressure range p_n	Burst pressure	Pressure mode	Temperature range
0.5 – 600 bar	1.5 x p_n ... 2.5 x p_n	Gauge (1 – 50 bar), absolute (1 – 50 bar), sealed gauge (> 100 bar)	Operating temperature: –40/+125 °C, compensated: +20/+85 °C

Electrical connections: solder pads, solder pins, flex
Special features: high chemical resistance, flush membrane, high long-term stability

CPS 2184 Z

PRESSURE SENSOR FLUSH MEMBRANE CERAMIC



Technology	Dimensions	Supply voltage	Output signal
Thick-film on ceramic	Ø 18 mm x max. 12 mm without plug	5 V	0.5 – 4.5 V (ratiometric) 4 – 20 mA

Pressure range p_n	Burst pressure	Pressure mode	Temperature range
0.5 – 600 bar	1.5 x p_n ... 2.5 x p_n	Gauge (1 – 50 bar), absolute (1 – 50 bar), sealed gauge (> 100 bar)	Operating temperature: –40/+125 °C, compensated: +20/+85 °C

Electrical connections: solder pads, plug (JST)
Special features: high chemical resistance - flush membrane, high long-term stability

METALLUX – PRESSURE SENSORS

CPS 2152

PRESSURE SENSOR CERAMIC



Technology	Dimensions	Supply voltage	Output signal
Thick-film on ceramic	Ø 15 x ca. 6.35 mm	3 – 30 V	1.5 – 3.5 mV/V

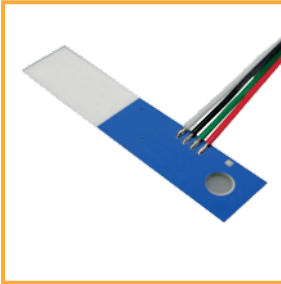
Pressure range p_n	Burst pressure	Pressure mode	Temperature range
1 – 50 bar	1.5 x p_n ... 2.5 x p_n	Gauge (1 – 50 bar), absolute (1 – 50 bar)	–40/+85 °C, optional up to 125 °C

Electrical connections: solder pads, solder pins, flex

Special features: high chemical resistance, flush membrane, high long-term stability

CBB

FORCE SENSOR (BENDING BEAM)



Technology	Dimensions	Supply voltage	Output signal
Thick-film on ceramic	Customized	3 – 30 V	1.5 – 6 mV/V

Force range f_{nom}	Burst force	Measurement principle	Temperature range
0 – 5 N unmounted	> 1,5 F_{nom}	Application of force	–40/+85°C

Electrical connections: solder pads, strands

Special features: customized, thick-film on stainless steel or FR4



METALLUX – PRESSURE SENSORS



SPS 1000 PRESSURE SENSOR MONOLITH STAINLESS STEEL



Technology	Dimensions	Supply voltage	Output signal
Thick-film on stainless steel	Ø 18 x 6.35 mm	3 – 30 V	1.5 – 3.5 mV/V

Pressure range p_n	Burst pressure	Pressure mode	Temperature range
10 – 1000 bar	Permissible overpressure: 1.5 x p_n , burst pressure: > 10 x p_n	Gauge	–40/+85°C, optional up to 125°C

Electrical connections: solder pads, solder pins, flex
Special features: high burst pressure at high pressure range

SPS 1000 Z PRESSURE SENSOR MONOLITH STAINLESS STEEL



Technology	Dimensions	Supply voltage	Output signal
Thick-film on stainless steel	Ø 18 mm x max. 12 mm without plug	5 V	0.5 – 4.5 V (ratiometric) 4 – 20 mA

Pressure range p_n	Burst pressure	Pressure mode	Temperature range
10 – 1000 bar	Permissible overpressure: 1.5 x p_n , burst pressure: > 10 x p_n	Gauge	–40/+85 °C, optional up to 125 °C

Electrical connections: solder pads, plug [JST]
Special features: high burst pressure at high pressure range



METALLUX – PRESSURE SENSORS



SPS 3003 PRESSURE SENSOR MONOLITH STAINLESS STEEL



Technology	Dimensions	Supply voltage	Output signal
Thick-film on stainless steel	SW22, G1/4", total height 24 mm	3 – 30 V	1.5 – 3.5 mV/V

Pressure range p_n	Burst pressure	Pressure mode	Temperature range
10 – 1000 bar	Permissible overpressure: $1.5 \times p_n$, burst pressure: $> 10 \times p_n$	Gauge	$-40/+85$ °C, optional up to 125 °C

Electrical connections: solder pads, solder pins, flex
Special features: integrated process connection, no O-ring seal required, high burst pressure at high pressure range, high chemical resistance
Option: Various mechanical steel designs available on request

SPS 3003 Z PRESSURE SENSOR MONOLITH STAINLESS STEEL



Technology	Dimensions	Supply voltage	Output signal
Thick-film on stainless steel	SW22, G1/4", total height max. 30 mm	5 V	0.5 – 4.5 V (ratiometric) 4 – 20 mA

Pressure range p_n	Burst pressure	Pressure mode	Temperature range
10 – 1000 bar	Permissible overpressure: $1.5 \times p_n$, burst pressure: $> 10 \times p_n$	Gauge	$-40/+85$ °C, optional up to 125 °C

Electrical connections: solder pads, plug (JST)
Special features: integrated process connection, no O-ring seal required, high burst pressure at high pressure range, high chemical resistance
Option: Various mechanical steel designs available on request



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