MC5-1250 SPECIFICATIONS

The MC5 is a cylindrical, six-axis transducer with threaded inserts on its top and bottom surfaces. The body of the load cell is manufactured from high strength aluminum with an anodized finish. An elastomeric 0-ring seal protects the strain gages and wiring. Internal sealing of the strain gages further ensures long life and consistent, reliable performance.

Units: Metric ▼ Capacity: 5560 N ▼

Dimensions(LxDia)	127 x 125.7 mm	**IP Rating**	IP60
Weight	3.18 Kg.	**Sensing elements**	Strain gage bridge
Channels	Fx, Fy, Fz, Mx, My, Mz	**Amplifier**	Required
Body Material	Aluminum	**Analog outputs**	6 Channels
Temperature range	-17.78 to 51.67°C	**Digital outputs**	None
Excitation	10V maximum	**Crosstalk**	< 2% on all channels
Fx, Fy, Fz hysteresis	± 0.2% full scale output	**Fx, Fy, Fz non-linearity**	± 0.2% full scale output

Channel	**Fx**	**Fy**	**Fz**	**Units**	**Mx**	**My**	**Mz**	**Units**
Capacity	2780	2780	5560	N	203	203	141	N-m
Sensitivity	0.899	0.899	0.225	µv/v-N	20.37	20.37	12.4	µv/v-N-m
Natural frequency	-	-	-	Hz	440	440	-	Hz
Stiffness (X 105)	210	210	1052	N/m	0.847	0.847	0.565	N-m/rad

Resolution — *To determine the resolution of your system, please use our Output Calculator.*

Notes:

The Fx, Fy, and Fz capacities can be exceeded by a factor of 3 as long as the Mx, My, and Mz capacities are not exceeded.

The Mx and My capacities are calculated in reference to the transducer origin located 2.37 in (6 cm) below the top surface.

Published specifications subject to change without notice.

Last modified:2016-08-23

TECHNICAL DRAWINGS
Footprint Drawing (click on image to enlarge)
Electrical Drawing (click on image to enlarge)
TECHNICAL DRAWING

MC5-2500 SPECIFICATIONS

The MC5 is a cylindrical, six-axis transducer with threaded inserts on its top and bottom surfaces. The body of the load cell is manufactured from high strength aluminum with an anodized finish. An elastomeric 0-ring seal protects the strain gages and wiring. Internal sealing of the strain gages further ensures long life and consistent, reliable performance.

Units: Metric ▼ Capacity: 11121 N ▼

Dimensions(LxDia)	127 x 125.7 mm	**IP Rating**	IP60
Weight	3.18 Kg.	**Sensing elements**	Strain gage bridge
Channels	Fx, Fy, Fz, Mx, My, Mz	**Amplifier**	Required
Body Material	Aluminum	**Analog outputs**	6 Channels
Temperature range	-17.78 to 51.67°C	**Digital outputs**	None
Excitation	10V maximum	**Crosstalk**	< 2% on all channels
Fx, Fy, Fz hysteresis	± 0.2% full scale output	**Fx, Fy, Fz non-linearity**	± 0.2% full scale output

Channel	**Fx**	**Fy**	**Fz**	**Units**	**Mx**	**My**	**Mz**	**Units**
Capacity	5561	5561	11122	N	407	407	282	N-m
Sensitivity	0.45	0.45	0.112	µv/v-N	10.18	10.18	6.2	µv/v-N-m
Natural frequency	-	-	-	Hz	625	625	-	Hz
Stiffness (X 105)	421	421	2104	N/m	1.69	1.69	1.13	N-m/rad

Resolution — *To determine the resolution of your system, please use our Output Calculator.*

Notes:

The Fx, Fy, and Fz capacities can be exceeded by a factor of 3 as long as the Mx, My, and Mz capacities are not exceeded.

The Mx and My capacities are calculated in reference to the transducer origin located 2.37 in (6 cm) below the top surface.

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Last modified:2016-08-23

TECHNICAL DRAWINGS
Footprint Drawing (click on image to enlarge)
Electrical Drawing (click on image to enlarge)
TECHNICAL DRAWING

MC5-5000 SPECIFICATIONS

The MC5 is a cylindrical, six-axis transducer with threaded inserts on its top and bottom surfaces. The body of the load cell is manufactured from high strength aluminum with an anodized finish. An elastomeric 0-ring seal protects the strain gages and wiring. Internal sealing of the strain gages further ensures long life and consistent, reliable performance.

Units: Metric ▼ Capacity: 22241 N ▼

Dimensions(LxDia)	127 x 125.7 mm	**IP Rating**	IP60
Weight	3.18 Kg.	**Sensing elements**	Strain gage bridge
Channels	Fx, Fy, Fz, Mx, My, Mz	**Amplifier**	Required
Body Material	Aluminum	**Analog outputs**	6 Channels
Temperature range	-17.78 to 51.67°C	**Digital outputs**	None
Excitation	10V maximum	**Crosstalk**	< 2% on all channels
Fx, Fy, Fz hysteresis	± 0.2% full scale output	**Fx, Fy, Fz non-linearity**	± 0.2% full scale output

Channel	**Fx**	**Fy**	**Fz**	**Units**	**Mx**	**My**	**Mz**	**Units**
Capacity	11121	11121	22242	N	813	813	565	N-m
Sensitivity	0.225	0.225	0.0562	µv/v-N	5.09	5.09	3.1	µv/v-N-m
Natural frequency	-	-	-	Hz	880	880	-	Hz
Stiffness (X 105)	842	842	4208	N/m	3.39	3.39	2.26	N-m/rad

Resolution — *To determine the resolution of your system, please use our Output Calculator.*

Notes:

The Fx, Fy, and Fz capacities can be exceeded by a factor of 3 as long as the Mx, My, and Mz capacities are not exceeded.

The Mx and My capacities are calculated in reference to the transducer origin located 2.37 in (6 cm) below the top surface.

Published specifications subject to change without notice.

Last modified:2016-08-23

TECHNICAL DRAWINGS
Footprint Drawing (click on image to enlarge)
Electrical Drawing (click on image to enlarge)
TECHNICAL DRAWING

MC5-10000 SPECIFICATIONS

The MC5 is a cylindrical, six-axis transducer with threaded inserts on its top and bottom surfaces. The body of the load cell is manufactured from high strength aluminum with an anodized finish. An elastomeric 0-ring seal protects the strain gages and wiring. Internal sealing of the strain gages further ensures long life and consistent, reliable performance.

Units: Metric ▼ Capacity: 44482 N ▼

Dimensions(LxDia)	127 x 125.7 mm	**IP Rating**	IP60
Weight	3.18 Kg.	**Sensing elements**	Strain gage bridge
Channels	Fx, Fy, Fz, Mx, My, Mz	**Amplifier**	Required
Body Material	Aluminum	**Analog outputs**	6 Channels
Temperature range	-17.78 to 51.67°C	**Digital outputs**	None
Excitation	10V maximum	**Crosstalk**	< 2% on all channels
Fx, Fy, Fz hysteresis	± 0.2% full scale output	**Fx, Fy, Fz non-linearity**	± 0.2% full scale output

Channel	**Fx**	**Fy**	**Fz**	**Units**	**Mx**	**My**	**Mz**	**Units**
Capacity	22242	22242	44484	N	1626	1626	1129	N-m
Sensitivity	0.112	0.112	0.0281	µv/v-N	2.55	2.55	1.55	µv/v-N-m
Natural frequency	-	-	-	Hz	1250	1250	-	Hz
Stiffness (X 105)	1683	1683	8416	N/m	6.78	6.78	4.52	N-m/rad

Resolution — *To determine the resolution of your system, please use our Output Calculator.*

Notes:

The Fx, Fy, and Fz capacities can be exceeded by a factor of 3 as long as the Mx, My, and Mz capacities are not exceeded.

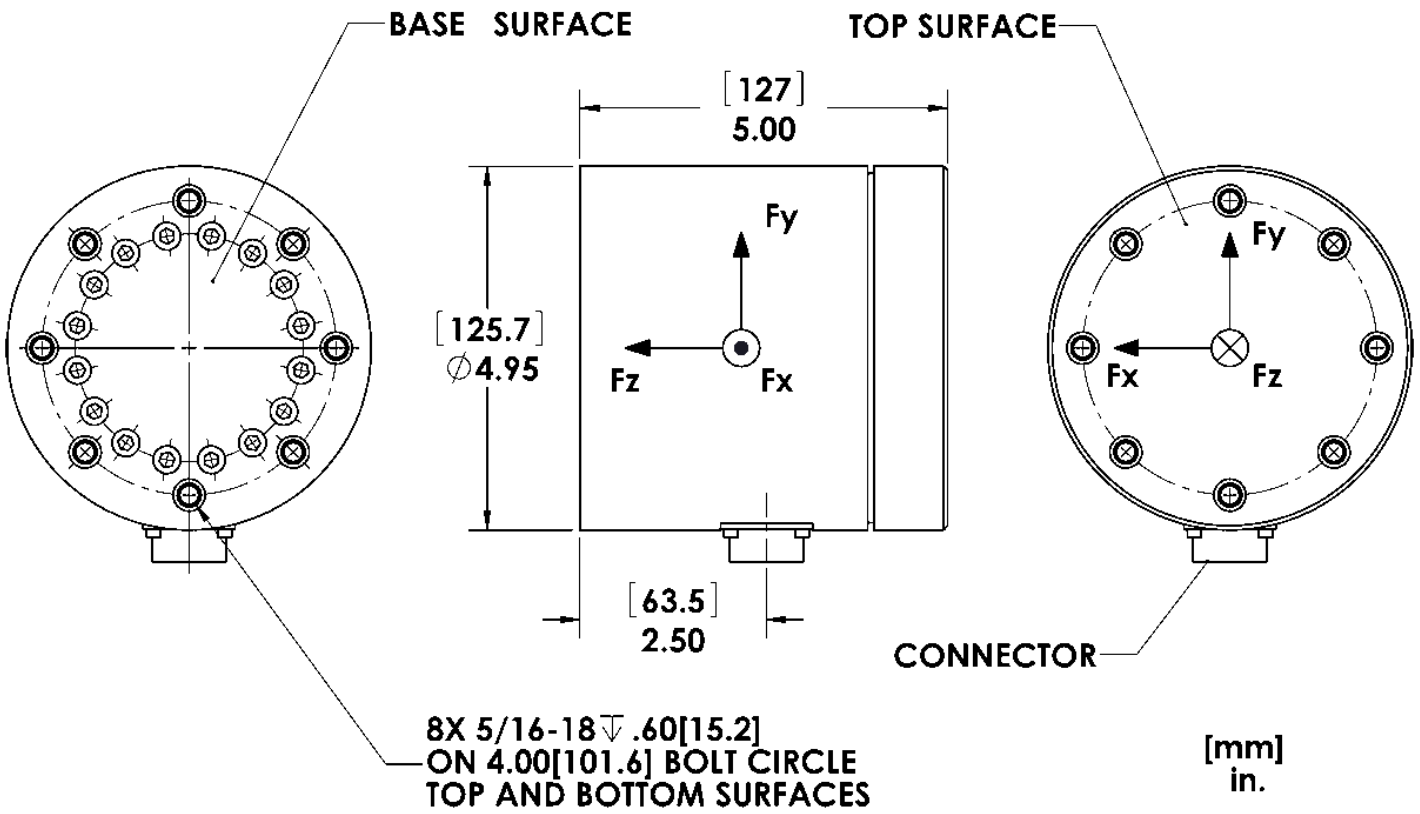
The Mx and My capacities are calculated in reference to the transducer origin located 2.37 in (6 cm) below the top surface.

Published specifications subject to change without notice.

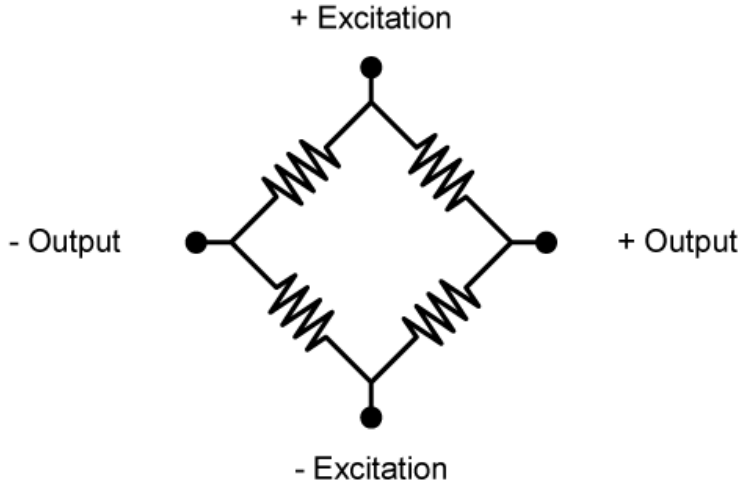
Last modified:2016-08-23

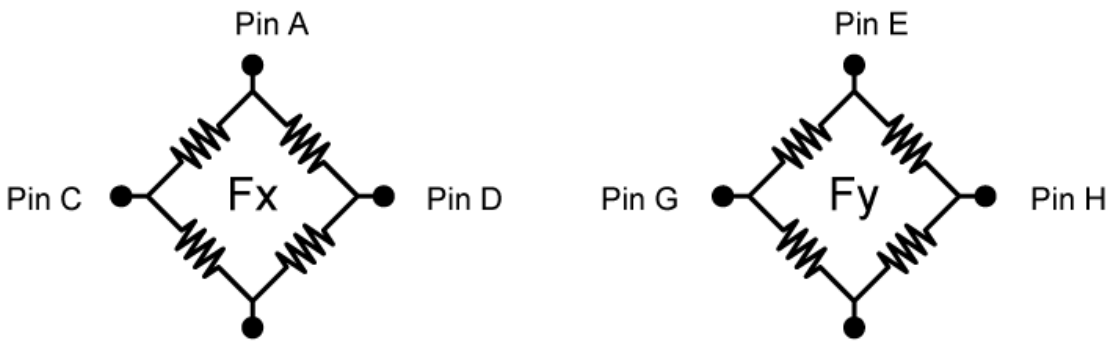
TECHNICAL DRAWINGS
Footprint Drawing (click on image to enlarge)
Electrical Drawing (click on image to enlarge)
TECHNICAL DRAWING

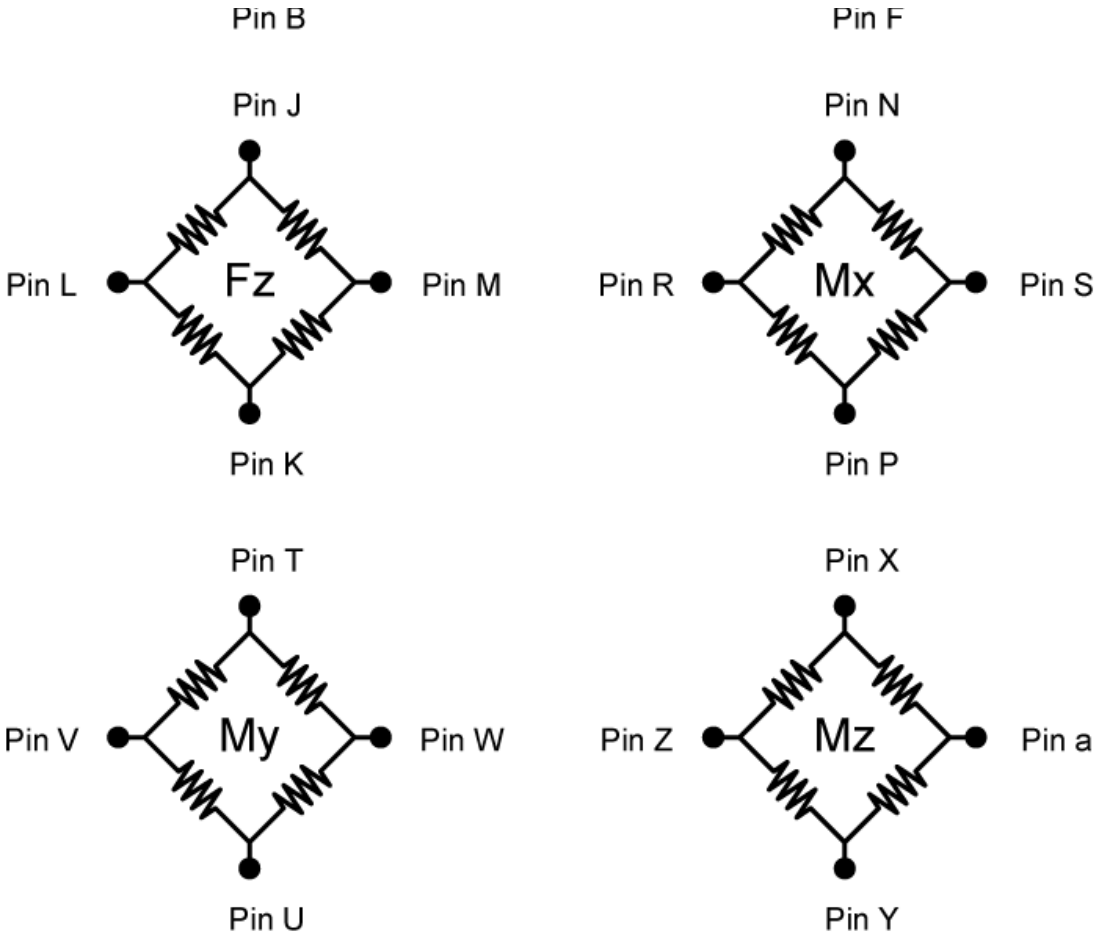
Footprint Drawing



Electrical Drawing







Bridges Fz; Mz = 700 ohms
Bridges Fx; Fy; Mx; My; = 350 ohms
Connector Type:
Souriau 851-02E16-26P50-44

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