



POSITIVE OUTPUT WHEN THE LOAD IS APPLIED TO THE TOOL SIDE  
PER COORDINATE SYSTEM AS SHOWN

THE OUTPUTS ARE NOT STRUCTURALLY DECOUPLED  
A 6X6 DECOUPLED MATRIX IS PROVIDED TO OBTAIN EACH COMPONENT

|  | Fx      | Fy  | Fz  | Mx  | My  | Mz  |
|--|---------|-----|-----|-----|-----|-----|
| <b>CAPACITY (N/Nm)</b>                   | 120     | 120 | 200 | 5.0 | 5.0 | 5.0 |
| <b>OUTPUT (mV/V)</b>                     | COUPLED |     |     |     |     |     |
| <b>BRIDGE RES. (<math>\Omega</math>)</b> | 350     | 350 | 350 | 350 | 350 | 350 |

### SPECIFICATIONS

|   |             |
|---|-------------|
| EXCITATION MAX. (V)                     | 5           |
| OVERLOAD CAPACITY (%F.S.)               | 300         |
| FREE AIR RESONANT FREQ. (HZ.)           | 4800        |
| CROSSTALK (%F.S.)                       | 2.0         |
| NON-LINEARITY (%F.S.)                   | 0.5         |
| HYSTERESIS (%F.S.)                      | 0.5         |
| OPERATING TEMP. RANGE ( $^{\circ}$ C)   | -40 TO +100 |
| COMPENSATED TEMP. RANGE ( $^{\circ}$ C) | 10 TO 70    |
| MASS (KG)                               | 0.042       |

### WIRING CODE - TWISTED PAIR

| FUNC   | CHN1          | CHN2       | CHN3        | CHN4          | CHN5       | CHN6         |
|--|---------------|------------|-------------|---------------|------------|--------------|
| +SIG   | WHITE(BROWN)  | ORG(BROWN) | BLUE(BROWN) | YEL(BROWN)    | RED(BROWN) | WHITE(BLACK) |
| -SIG   | BROWN(WHITE)  | BROWN(ORG) | BROWN(BLUE) | BROWN(YEL)    | BROWN(RED) | BLACK(WHITE) |
| +EXC   | ORG(BLACK)    | BLACK(ORG) | BLUE(BLACK) | BLACK(BLUE)   | RED(BLACK) | BLACK(RED)   |
| -EXC   | YELLOW(BLACK) |            |             | BLACK(YELLOW) |            |              |
| "YEL"="YELLOW", "ORG"="ORANGE", "WHITE(BROWN)" = WHITE CABLE IN WHITE/BROWN PAIR |               |            |             |               |            |              |

**SUNRISE INSTRUMENTS**

[www.srisensor.com](http://www.srisensor.com)

SIX AXIS CIRCULAR LOAD CELL, COUPLED  
D35MM F200N

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN MM

M3733C1

REV.  
A1