



POSITIVE OUTPUT IS EXPECTED WHEN LOAD (FORCE OR MOMENT) IS APPLIED TO THE TOOL SIDE PER COORDINATE SYSTEM AS SHOWN

ALL CHANNELS ARE STRUCTURALLY DECOUPLED. NO DECOUPLING ALGORITHM REQUIRED. STANDARD DATA ACQUISITION SYSTEM CAN BE USED

IP PROTECTION: IP60.

|  | Fx   | Fy   | Fz   | Mx  | My  | Mz  |
|--|------|------|------|-----|-----|-----|
| <b>CAPACITY (N/Nm)</b>                   | 2700 | 2700 | 4000 | 180 | 180 | 144 |
| <b>OUTPUT (mV/V)</b>                     | 2.2  | 2.2  | 0.6  | 2.6 | 2.6 | 2.0 |
| <b>BRIDGE RES. (<math>\Omega</math>)</b> | 350  | 350  | 350  | 350 | 350 | 700 |

| SPECIFICATIONS                        |             |
|---------------------------------------|-------------|
| EXCITATION MAX. (V)                   | 15          |
| OVERLOAD CAPACITY (%F.S.)             | 150         |
| FREE AIR RESONANT FREQ. (HZ.)         | 4000        |
| CROSSTALK (%F.S.)                     | 5.0         |
| NON-LINEARITY (%F.S.)                 | 1.0         |
| HYSTERESIS (%F.S.)                    | 1.0         |
| OPERATING TEMP. RANGE ( $^{\circ}$ C) | -40 TO +100 |
| MASS (KG)                             | 0.32        |

**WIRING CODE - TWISTED PAIR**

| FUNC  | FX             | FY          | FZ           | MX             | MY          | MZ            |
|---|----------------|-------------|--------------|----------------|-------------|---------------|
| +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  
D90MM F2700N

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN MM

M3616C

REV.  
A3