

QUAD M0 Loop Sign Table

OSEM Basis

EULER Basis

OSEM Basis

| Real Motion | OSEM Sensing | Elec. Gain | OSEMINF Gain | OSEM2EUL Gain | DAMP Gain | EUL2OSEM Gain | COILOUTF Gain | Elec. Gain | Current Sign | Magnet Polarity | OSEM Force | Real Motion |
|-------------|--------------|------------|--------------|---------------|-----------|---------------|---------------|------------|--------------|-----------------|------------|-------------|
| | - F2 | + | + | - | | - | - | + | - | S | Push | |
| + L | | | | | - | | | | | | | - L |
| | - F3 | + | + | - | | - | + | + | + | N | Push | |
| | | | | | | | | | | | | |
| + T | - SD | + | + | - | - | - | - | + | - | S | Push | - T |
| | | | | | | | | | | | | |
| | - LF | + | + | - | | - | - | + | - | S | Push | |
| + V | | | | | - | | | | | | | - V |
| | - RT | + | + | - | | - | + | + | + | N | Push | |
| | | | | | | | | | | | | |
| | - LF | + | + | - | | - | - | + | - | S | Push | |
| + R | | | | | - | | | | | | | - R |
| | + RT | + | + | + | | + | + | + | - | N | Pull | |
| | | | | | | | | | | | | |
| | - F1 | + | + | - | | - | - | + | + | N | Push | |
| + P | + F2 | + | + | + | - | + | - | + | + | S | Pull | - P |
| | + F3 | + | + | + | | + | + | + | - | N | Pull | |
| | | | | | | | | | | | | |
| | + | + | + | + | | + | - | + | + | S | Pull | |
| + Y | | | | | - | | | | | | | - Y |
| | - | + | + | - | | - | + | + | + | N | Push | |

Sensing Chain

Actuation Chain