



应用:

传感器高度低, 可用于低、中、高量程称重系统。

一些典型应用为:

- 皮带秤, 重量给料机;
- 小型称重平台。

主要特性:

- 防水设计, 防护等级IP68;
- 对侧向载荷有较高抗力;
- 可提供双路输出, 用于冗余系统;
- 可提供 CANopen 输出 (CIA404)
- 可提供4-20mA输出;
- 微等离子体焊接;
- 测量精度高, 等同于OIML C3;
- ATEX防爆认证。
- 量程规格: 0.5, 1, 2, 5, 7.5, 10, 15, 20, 30, 50, 100, 150, 200 ton

技术参数根据VDI/VDE 2637规范

| 计量特性 | Par. | Un. | |
|---------------------------|-------|------|--|
| 综合误差 | Fcomb | ±%Ln | 0.035 |
| 量程规格 | Ln | ton | 0.5, 1, 2, 5, 7.5, 10, 15, 20, 30, 50, 100, 150, 200 |
| 最小负载 | Lp | %Ln | 25 |
| 最大负载 | Ll | %Ln | 150 |
| 线性误差 | Flin | ±%Ln | 0.02 |
| 滞后特性 | Fu | ±%Ln | 0.015 |
| 重复误差 | Fv | ±%Ln | 0.01 |
| 蠕变特性 (30分钟) | Fcr | ±%Ln | 0.02 |
| 补偿温度 | Btn | °C | -10 .. +40 |
| 零点温漂 (10 .. 60°C, 超过10°C) | TK0 | ±%Cn | 0.065 |
| 输出温漂 (10 .. 60°C, 每10°C) | TKC | ±%Cn | 0.035 |
| 温度梯度 | | K/h | <5 |

电气参数

| | | | |
|----------|-----|------|---------|
| 额定输出 | Cn | mV/V | 2 |
| 额定输出公差 | Dc | ±%Cn | 0.1 |
| 激励电压 | Bsu | V | 1 .. 24 |
| 最大激励电压 | | V | 30 |
| 输入电阻 | Re | Ω | 850±10% |
| 输出电阻 | Ra | Ω | 700±1% |
| 绝缘电阻@20V | Ris | MΩ | >2000 |
| 零点平衡 | Do | ±%Cn | 2 |

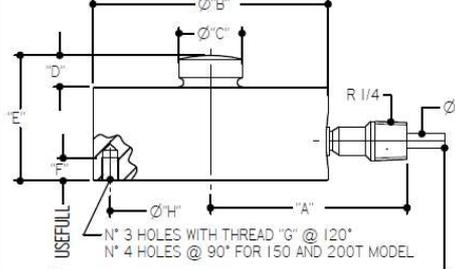
机械参数

| | | | |
|--------|-----|-----|------------|
| 极限负载 | Ld | %Ln | > 300 |
| 最大侧向负载 | Llq | %Ln | > 300 |
| 最大变形量 | hn | mm | <0.5 |
| 电缆长度 | | m | 5 |
| 自身重量 | | Kg | 1.5 .. 7.5 |

环境条件

| | | | |
|------|-----|----|------------|
| 工作温度 | Btn | °C | -40 .. +80 |
| 存放温度 | Bts | °C | -40 .. +80 |
| 防护等级 | | | IP68 |

TYPE 142 压式称重传感器



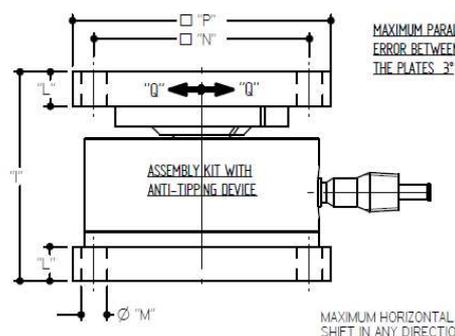
USEFULL: N° 3 HOLES WITH THREAD "G" @ 120°
N° 4 HOLES @ 90° FOR 150 AND 200T MODEL

142-XXX-C3 ORDERING INFORMATION

| NOMINAL LOAD | "A" | "B" | "C" | "D" | "E" | "F" | "G" | "H" |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 500k | | | | | | | | |
| 1t | | | | | | | | |
| 2t | 66 | 82 | 22 | 11 | 44 | 8 | M6 | 70 |
| 5t | | | | | | | | |
| 7,5t | | | | | | | | |
| 10t | | | | | | | | |
| 15t | 74 | 99 | 28 | 11 | 48 | 15 | M10 | 80 |
| 20t | | | | | | | | |
| 30t | 88 | 126 | 35 | 12 | 54 | 15 | M12 | 105 |
| 50t | | | | | | | | |
| 100t | 107 | 164 | 55 | 15 | 65 | 20 | M16 | 130 |
| 150t | 107 | 164 | 55 | 13 | 71 | 20 | M16 | 130 |

| | SINGLE BRIDGE | | TYPE #2-XXX-C3 | | TYPE #2MA-XXX-C3 | | TYPE #2CO-XXX-C3 | |
|-------|---------------|--------|----------------|---------|------------------|---------|------------------|---------|
| | WIRE | SIGNAL | WIRE | SIGNAL | WIRE | SIGNAL | WIRE | SIGNAL |
| BLUE | +SUPPLY | | BLUE | +SUPPLY | BLUE | +SUPPLY | BLUE | +SUPPLY |
| BLACK | -SUPPLY | | BROWN | -SUPPLY | BROWN | -SUPPLY | BROWN | -SUPPLY |
| RED | +SIGNAL | | GRAY | +4-20mA | GRAY | +4-20mA | RED | CAN H |
| WHITE | -SIGNAL | | | | WHITE | | WHITE | CAN L |

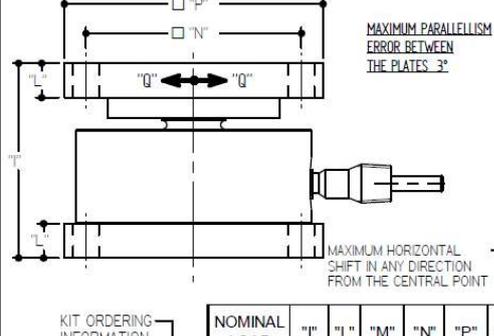
| | DOUBLE BRIDGE BRIDGE 1 | | TYPE #2DP-XXX-C3 | | TYPE #2DPA-XXX-C3 | | TYPE #2DPCO-XXX-C3 | |
|--------|------------------------|--------|------------------|---------|-------------------|---------|--------------------|---------|
| | WIRE | SIGNAL | WIRE | SIGNAL | WIRE | SIGNAL | WIRE | SIGNAL |
| GREEN | +SUPPLY | | GREEN | +SUPPLY | GREEN | +SUPPLY | GREEN | +SUPPLY |
| YELLOW | -SUPPLY | | YELLOW | -SUPPLY | YELLOW | -SUPPLY | YELLOW | -SUPPLY |
| GRAY | +SIGNAL | | GRAY | +4-20mA | GRAY | +4-20mA | GRAY | CAN H |
| PINK | -SIGNAL | | | | PINK | | PINK | CAN L |
| BLUE | +SUPPLY | | BLUE | +SUPPLY | BLUE | +SUPPLY | BLUE | +SUPPLY |
| BROWN | -SUPPLY | | BROWN | -SUPPLY | BROWN | -SUPPLY | BROWN | -SUPPLY |
| RED | +SIGNAL | | RED | +4-20mA | RED | +4-20mA | RED | CAN H |
| WHITE | -SIGNAL | | | | WHITE | | WHITE | CAN L |



ASSEMBLY KIT WITH ANTI-TIPPING DEVICE

MAXIMUM PARALLELISM ERROR BETWEEN THE PLATES: 3°

MAXIMUM HORIZONTAL SHIFT IN ANY DIRECTION FROM THE CENTRAL POINT



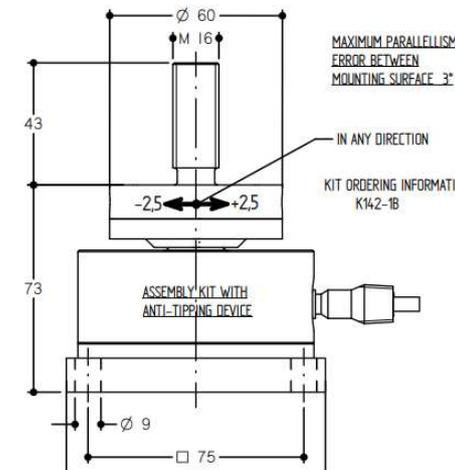
ASSEMBLY KIT WITH ANTI-TIPPING DEVICE

MAXIMUM PARALLELISM ERROR BETWEEN THE PLATES: 3°

MAXIMUM HORIZONTAL SHIFT IN ANY DIRECTION FROM THE CENTRAL POINT

| KIT ORDERING INFORMATION | NOMINAL LOAD | "I" | "L" | "M" | "N" | "P" | "Q" |
|--------------------------|--------------|-----|-----|------|-----|-----|-----|
| K142-1H | =<10t | 73 | 12 | 9 | 75 | 90 | 2.5 |
| K142-2H | 10-20t | 80 | 12 | 11.5 | 90 | 110 | 4 |
| K142-3H | 30t | 94 | 15 | 13 | 115 | 140 | 5 |

| KIT ORDERING INFORMATION | NOMINAL LOAD | "I" | "L" | "M" | "N" | "P" | "Q" |
|--------------------------|--------------|-----|-----|------|-----|-----|-----|
| K142-1D | =<10t | 68 | 12 | 9 | 75 | 90 | 1.5 |
| K142-2D | 10-20t | 72 | 12 | 11.5 | 90 | 110 | 1.5 |
| K142-3D | 30t | 84 | 15 | 13 | 115 | 140 | 1.5 |
| K142-4D | 50-100t | 115 | 25 | 18 | 150 | 180 | 10 |
| K142-4D | 150t | 121 | 25 | 18 | 150 | 180 | 10 |
| K142-4D | 200t | 129 | 25 | 18 | 150 | 180 | 10 |



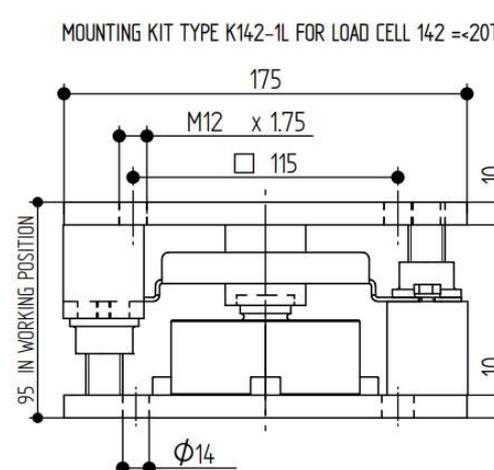
ASSEMBLY KIT WITH ANTI-TIPPING DEVICE

MAXIMUM PARALLELISM ERROR BETWEEN MOUNTING SURFACE: 3°

IN ANY DIRECTION

KIT ORDERING INFORMATION K142-1B

MOUNTING KIT TYPE K142-1L FOR LOAD CELL 142 =<20T



95 IN WORKING POSITION