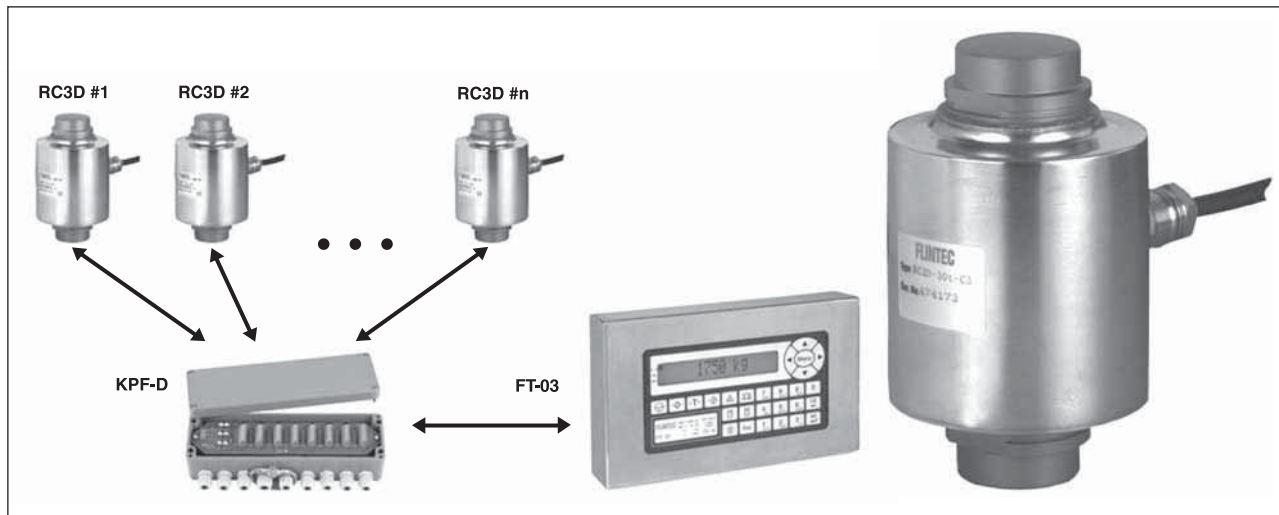




...the right weigh

Type RC3D Digital Load Cell

数字称重传感器



System Configuration with RC3D Components RC3D系统组成

RC3D数字称重传感器可直接与计算机、PLC和其他设备连接。每一个RC3D数字传感器都是一个独立的系统，具有系统设置、角差调整、标定和错误检测功能。

Important Features

- Capacities: 30 t to 50 t.
- High accuracy.
- Easy communication and system setup.
- Additional RC3D system components available:
 - ① KPF-D junction box and FT-03 weight indicator.
 - ② KPF-D junction box and FlintWeigh
- Total stainless steel construction.

主要特点

- 量程: 30t ~ 50t
- 高精度
- 系统设置简单和通讯方便
- RC3D系统组成: ① KPF-D接线盒和FT-03仪表
② KPF-D接线盒和FlintWeigh
- 不锈钢结构
- 全金属焊接密封结构, 防护等级(IP68)

选型

RC3D	-量程	-精度等级
------	-----	-------

RC3 Specifications 技术参数

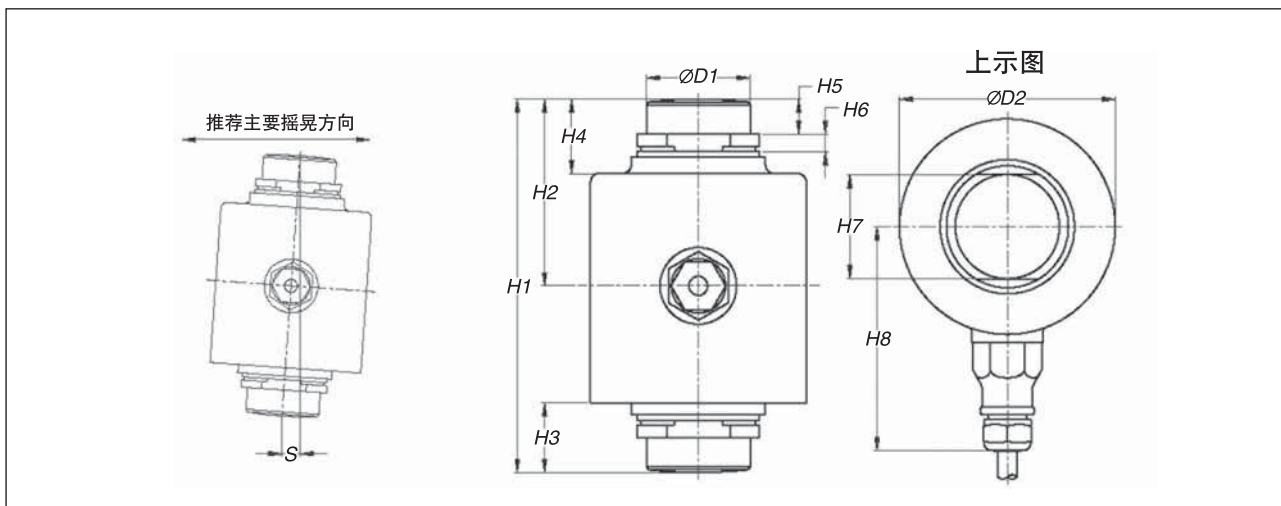
Maximum capacity 量程 (E _{max})	t	30/40/50			
Rated Output 输出 (=RO)	Counts	200 000			
Accuracy class according to OIML R 60 精度等级		(GP)	C1	C3	C4
Maximum number of verification intervals 最大检定分度数 (N _{max})		n.a.	1000	3000	4000
Minimum load cell verification interval 最小检定分度 (V _{min})		n.a.	E _{max} /5000	E _{max} /15000	
Combined error 综合误差	%RO	≤ ± 0.040	≤ ± 0.030	≤ ± 0.020	≤ ± 0.018
Creep error (30 minutes)/DR 蠕变	%RO	≤ ± 0.060	≤ ± 0.049	≤ ± 0.016	≤ ± 0.012
Temperature effect on minimum dead load output 零点温度系数	%RO/°C	≤ ± 0.0040	≤ ± 0.0028	≤ ± 0.0009	≤ ± 0.0009
Temperature effect on sensitivity 灵敏度温度系数	%/°C	≤ ± 0.0020	≤ ± 0.0015	≤ ± 0.0010	≤ ± 0.0008
Converter type 转换方式		Sigma-Delta ratiometric Σ-Δ方式			
Conversion rate 转换率		3 to 70 Hertz (selectable) (可选)			
Digital filter 数字滤波		FIR automatically adjusted to conversion rate plus Rolling Average (1, 2, 4, 8, 16, 32 samples) post filtering FIR自动调整转换率			
Internal resolution 内部分辨率	Counts	550 000			
Asynchrone interface 通讯端口		RS-485A			
Number of bus addresses 地址数		32			



...the right weigh

Excitation voltage 激励电压	V	9...12
Current consumption 电流损耗	mA	40
Compensated temperature range 补偿温度范围	℃	-10...+40
Operating temperature range 工作温度范围	℃	-40...+80
Safe load limit (Elim) 安全承载	%Emax	200
Ultimate load 极限承载	%Emax	300
Load cell material 材料		stainless steel 17-4 PH (1.4548)不锈钢
Sealing 密封		complete hermetic sealing; 全金属焊接密封
Protection according DIN 40.05 防护等级		IP 68

Dimensions 尺寸



Type 型号	H1	H2	H3	H4	H5	H6	H7	H8	D1	D2	Smax*	RF**
RC3D-30t /40t	150	70	26	28	13	6.5	39	84	39	81	12	27kN
RC3D-50t	178	89	32	34	17	8.5	44	94	44	99	9	51kN

* Smax=maximum lateral displacement of load introduction. Recommended gap3...5 mm.

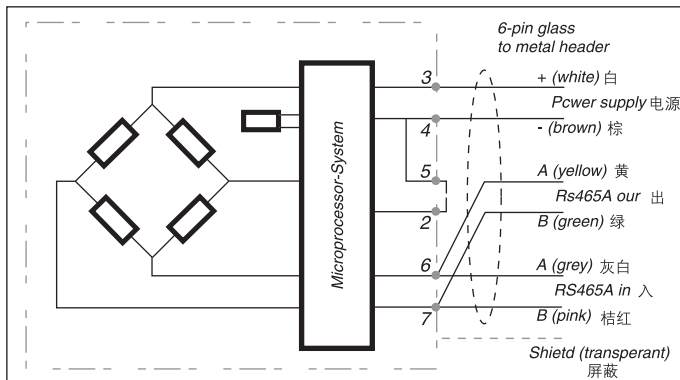
* Smax=最大侧向偏移量。推荐为3...5mm。

** RF =restoring force at Smax and Emax.

** RF=在Smax和Emax之间的复位力。

All dimensions in mm. 所有尺寸单位为mm.

接线图



Wiring

- The load cell is provided with a 3x twisted pair cable (AWG 24) and shield according DIN 47 100.
- Cable length: 18 m.
- Cable diameter: 7.4 mm.
- The shield is connected to the load cell body.

连线

- 称重传感器提供三对电缆 (AWG 24) 以及依照DIN 47 100设计屏蔽线。
- 电缆长度: 18m.
- 电缆直径为: 7.4mm.
- 屏蔽线与称重传感器本体相连