



제품 소개

- RC1 은 25.5 ~ 91.8ton 까지의 트럭 스케일 및 프로세스 계량 시스템의 응용 분야를 위해 설계된 압축 전용 로드셀 입니다.
- Stainless Steel 구조와 완전 용접 구조의 열악한 환경에서 사용되는 고용량 및 고정밀도가 요구되는 산업용 계량에 입증된 적합한 로드셀 입니다.

특징 Feature

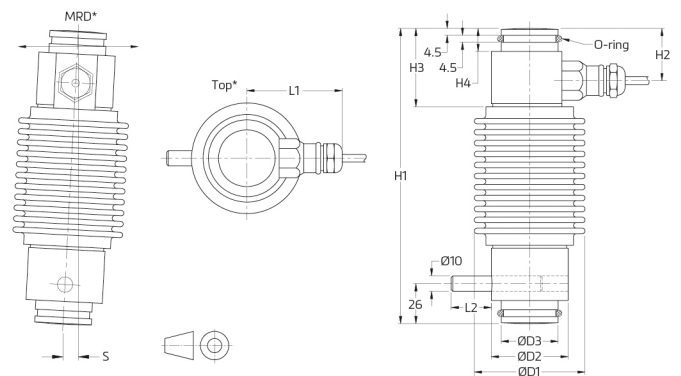
- Stainless Steel 구조 / 밀폐 봉인 구조
- 높은 정밀도 / 밀폐 봉인 / 자가 복원 기능 설계
- EN 60 529에 따른 보호 : IP68
- 로드셀 케이블 : 폴리 우레탄 12 / 18m × 7.8mm

specifications

Maximum capacity (E _{max})	kN	250 / 400 / 600 / 900		
Metric equivalents (1 N=0.10197 kg)	t	25.5 / 40.8 / 61.2 / 91.8		
Accuracy class according to OIML R60		(GP)	C1	C3
Maximum number of verification intervals (n _{LC})	n.V.		1,000	3,000
Minimum load cell verification interval (V _{min})	n.V.		E _{max} / 4,667	E _{max} / 10,000
Temp. effect on minimum dead load output (TC ₀)	%*RO/10°C	± 0.0400	± 0.0280	± 0.0140
Temperature effect on sensitivity (TC ₉₀)	%*RO/10°C	± 0.0200	± 0.0160	± 0.0100
Combined error	%*RO	± 0.0500	± 0.0300	± 0.0200
Non-linearity	%*RO	± 0.0400	± 0.0300	± 0.0166
Hysteresis	%*RO	± 0.0400	± 0.0300	± 0.0166
Creep error (30 minutes) / DR	%*RO	± 0.0600	± 0.0490	± 0.0166
Rated Output (RO)	mV/V	2 ± 0.1%		
Calibration in mV/V/Ω (A...I classified)	%*RO	± 0.05 (± 0.005)		
Zero balance	%*RO	± 5		
Excitation voltage	V	5..15		
Input resistance (R _{LC})	Ω	400 ± 15		
Output resistance (R _{out})	Ω	351 ± 1		
Insulation resistance (100 VDC)	MΩ	≥ 5,000		
Safe load limit (E _{lim})	%*E _{max}	200		
Ultimate load	%*E _{max}	300		
Compensated temperature range	°C	-10...+40		
Operating temperature range	°C	-40...+80 (ATEX -40...+60)		
Load cell material		Stainless steel 17-4 PH (1.4548)		
Sealing		complete hermetic sealing; cable entry sealed by glass to metal header		
Packet weight	kg	3.6 (250kN), 6.6 (400kN), 7.0 (600kN, 900kN)		

The limits for Non-Linearity, Hysteresis, and TC₉₀ are typical values.
The sum of Non-linearity, Hysteresis and TC₉₀ meets the requirements according to OIML R60 with p_{LC}=0.7.

product dimensions (mm)



Type (kN)	L1	L2	H1	H2	H3	H4	D1	D2	D3	S _{max} *	RF**
RC1-250	62	33	192	34	51	15	72	50	37	10.5	19 kN
RC1-400	69	26	225	36	57	16	85	64	37	11	20 kN
RC1-600	69	26	225	36	57	16	85	64	54.4	12.5	63 kN

* S_{max} - maximum lateral displacement of load introduction. Recommended gap 3..5 mm.
** RF - restoring force at S_{max} and E_{max}.
MRD* - recommended main racking direction
Top* - top view

wiring

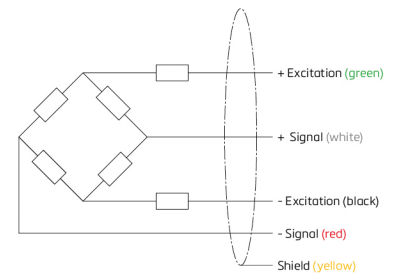
The load cell is provided with a shielded, 4 conductor cable (AWG 20).

Cable jacket: polyurethane

Cable length: 12 m for RC1-250 kN, 16 m for RC1-400 kN, 18 m for RC1-600 and 900 kN

Cable diameter: 7.8 mm

The shield is floating (On request the shield can be connected to the load cell body)



RoHS compliant

