



Since 1994, DIGITAL LEADER Axis Sensitive Co. Ltd  
**Industrial Explosion Proof Load Cell**



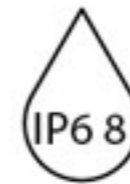
**MODEL : RC1-EXP**



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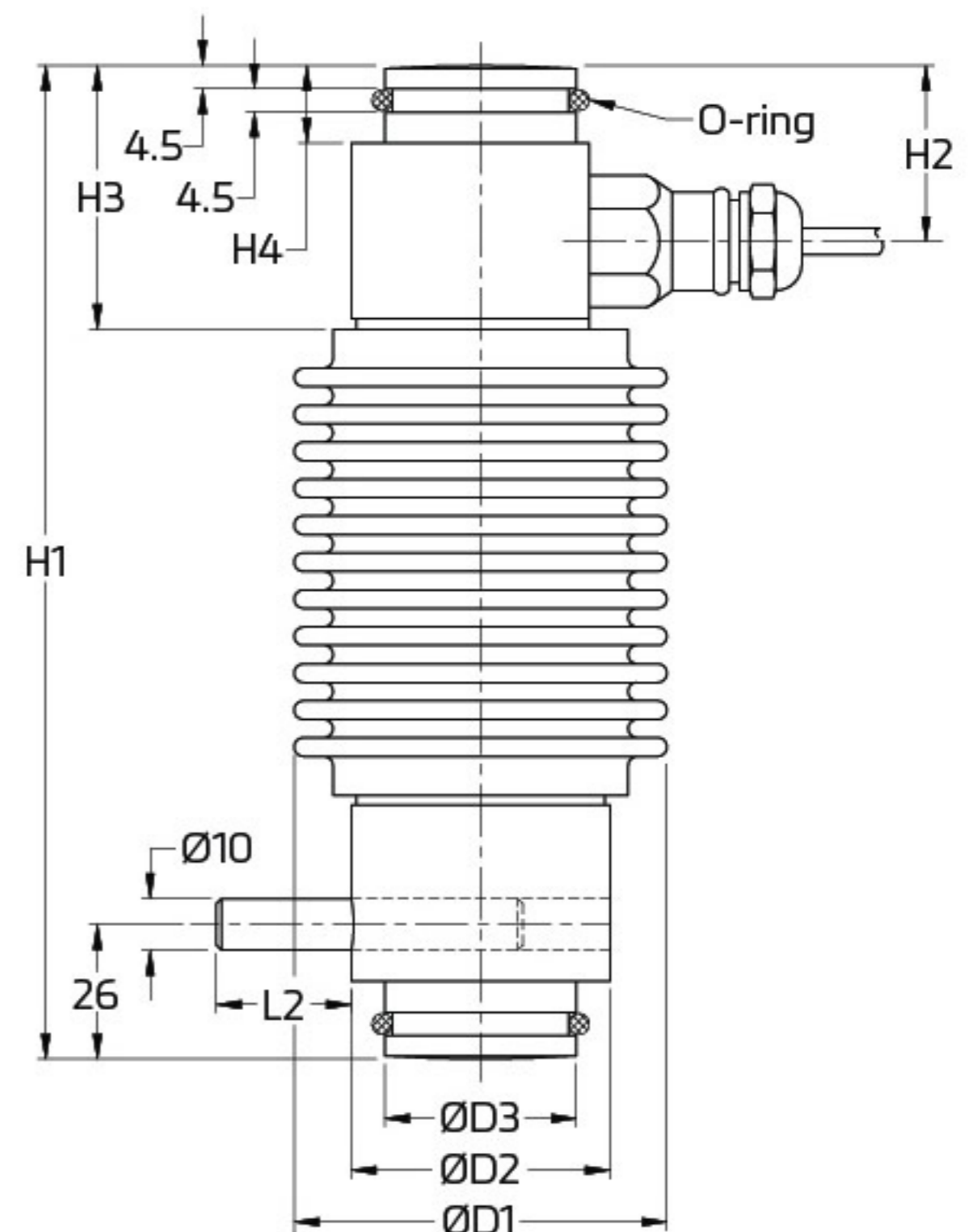
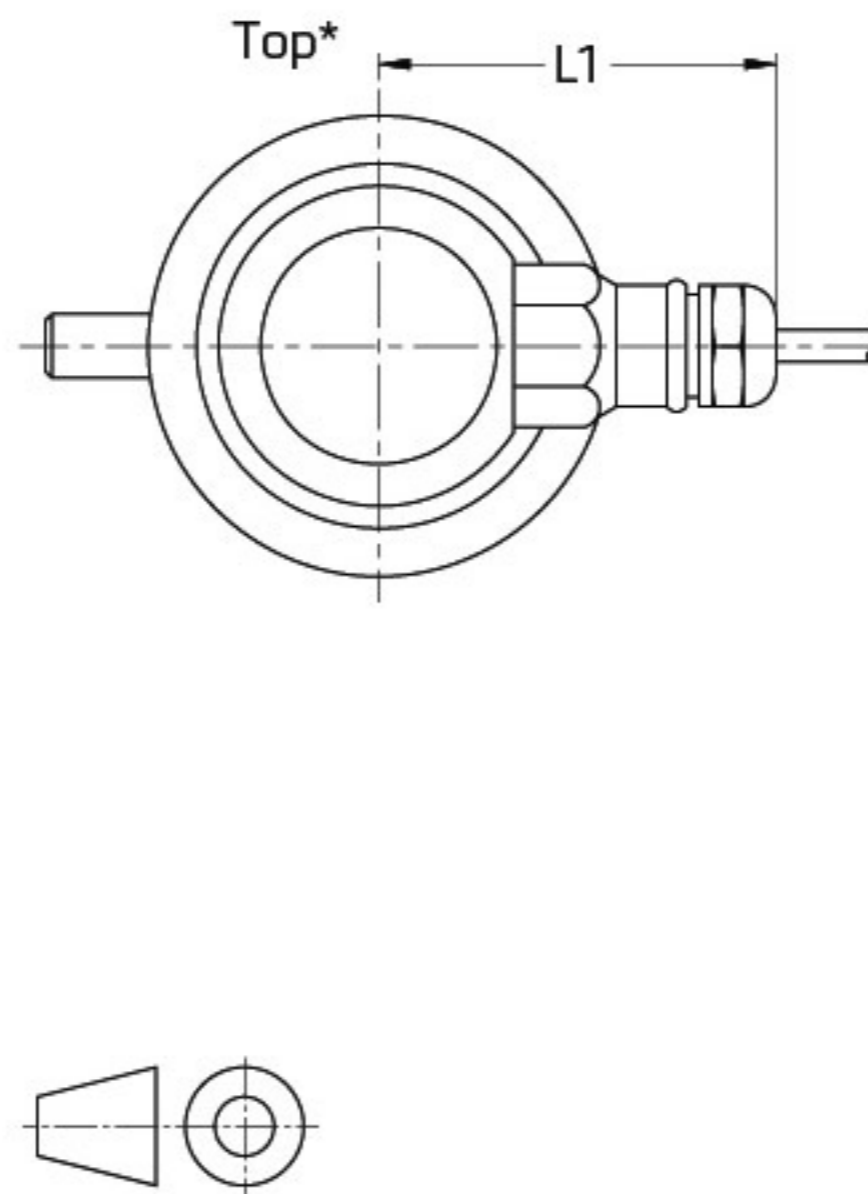
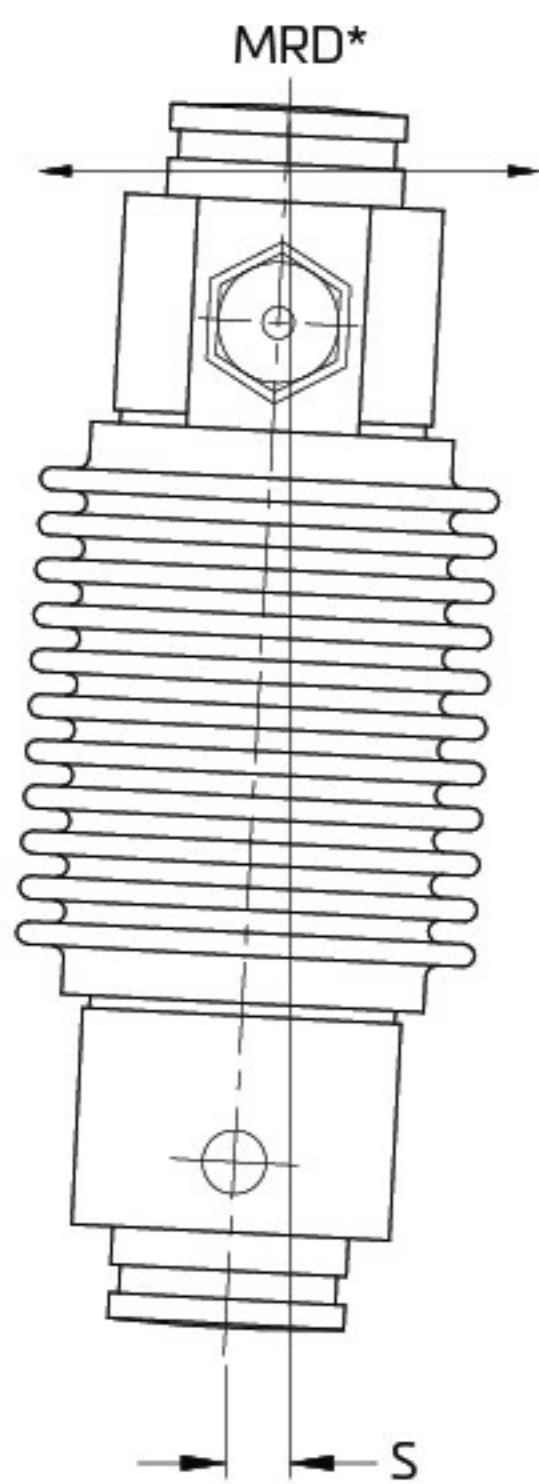


RoHS compliant



**제품 규격 [UNIT : mm]**

**Product Specification**



Type (kN)	L1	L2	H1	H2	H3	H4	D1	D2	D3	S <sub>max</sub> *	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<sub>max</sub> - maximum lateral displacement of load introduction. Recommended gap 3...5 mm.

\*\* RF - restoring force at S<sub>max</sub> and E<sub>max</sub>.

MRD\* - recommended main rocking direction

Top\* - top view

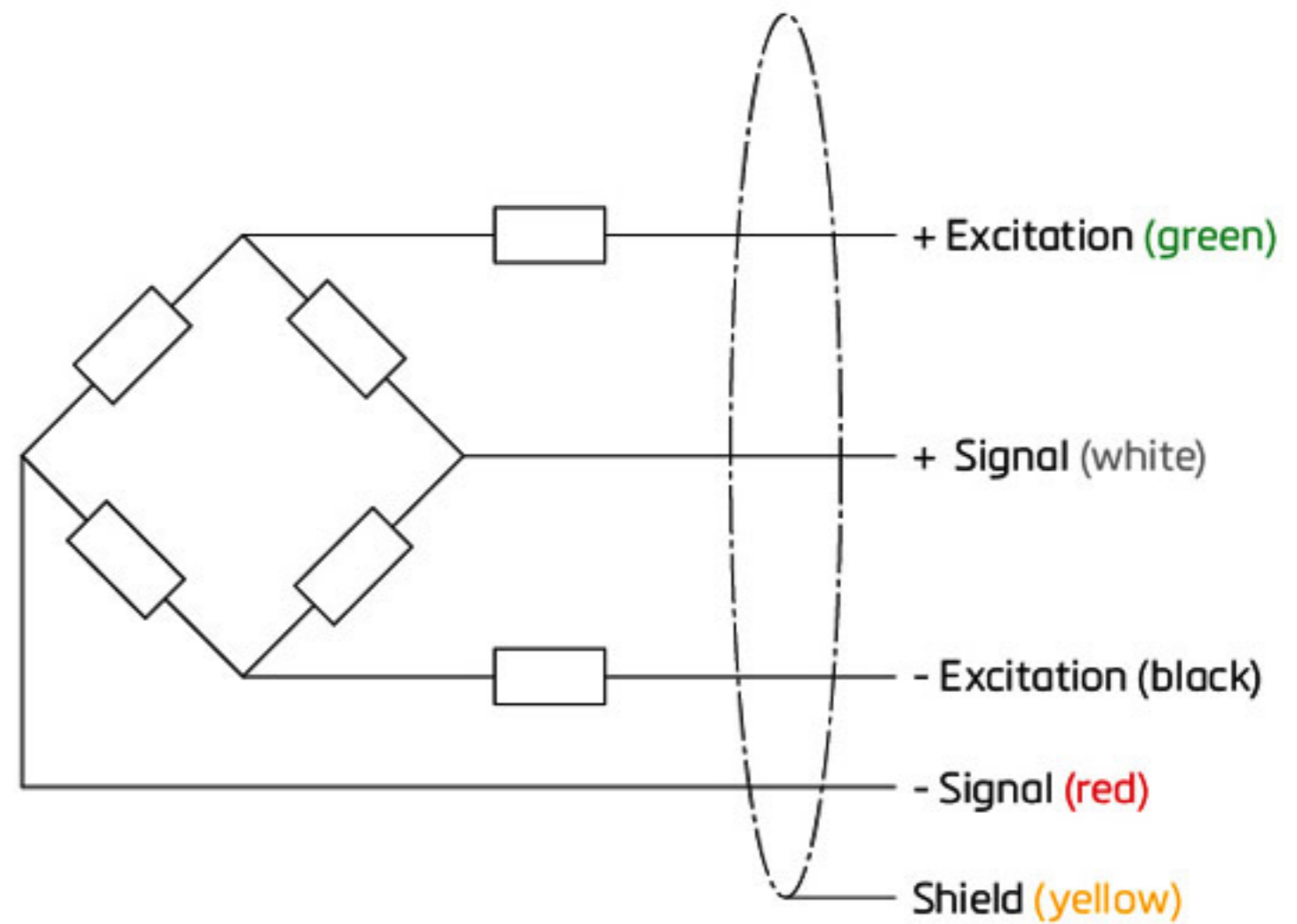
The load cell is provided with a shielded, 4 conductor cable (AWG 20).

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)



- ▶ RC1은 25.5~91.8ton 까지의 트럭 스케일 및 프로세스 계량 시스템의 응용 분야를 위해 설계된 압축 전용 로드셀
- ▶ Stainless Steel 구조와 완전 용접 구조의 열악한 환경에서 사용되는 고용량 및 고정밀도가 요구되는 산업용 계량에 입증된 적합한 로드셀

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 ( $TC_{RO}$ )	%*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 V DC)	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  $TC_{RO}$  are typical values.

The sum of Non-linearity, Hysteresis and  $TC_{RO}$  meets the requirements according to OIML R60 with  $p_{LC}=0.7$ .