Since 1994, DIGITAL LEADER Axis Sensitive Co. Ltd

Industrial Explosion Proof Load Cell

MODEL : RC3-EXP

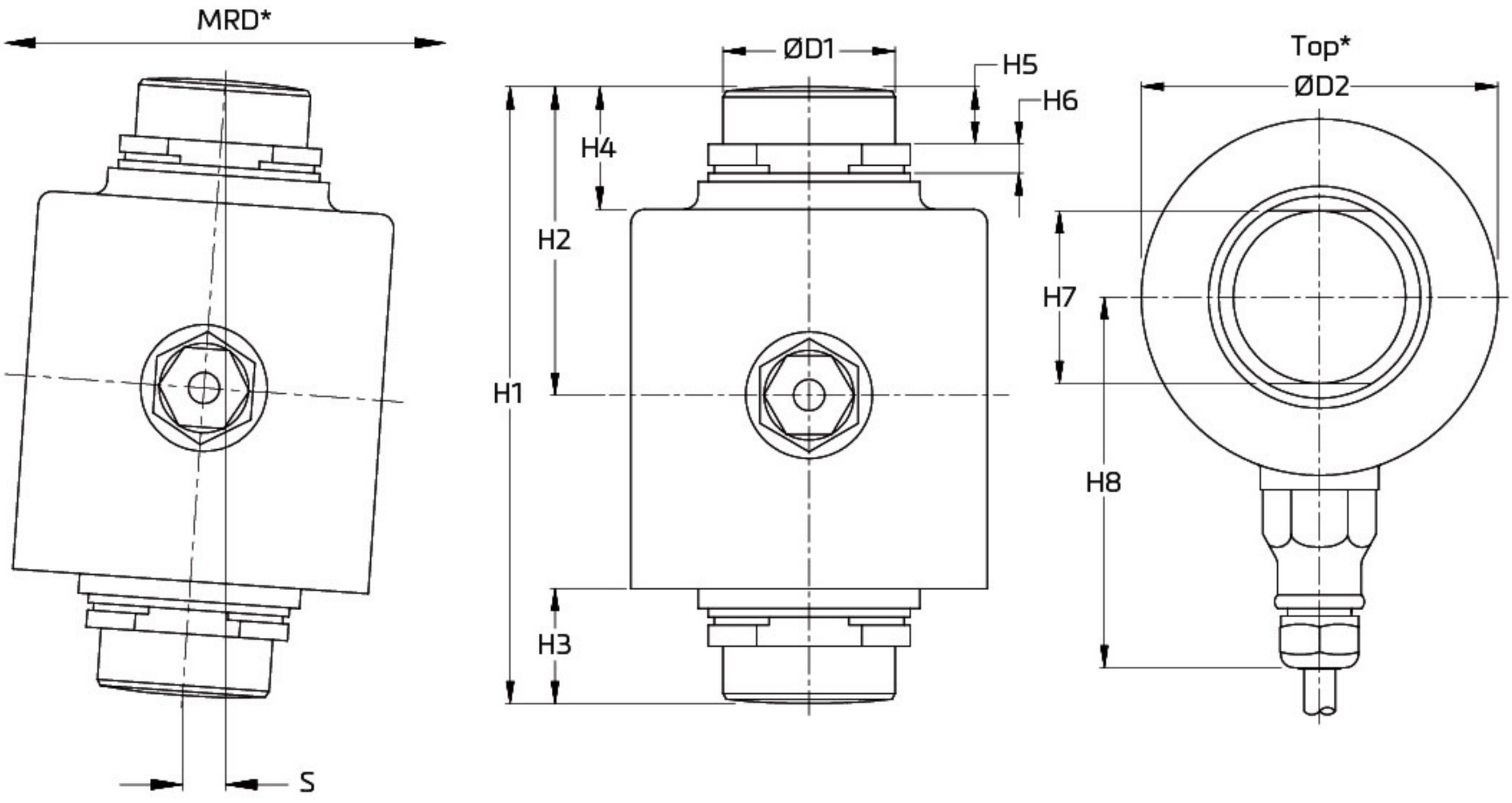
www.axis123.com

RoHS compliant

IP6 8

FM APPROVED

제품 규격 [UNIT : mm] Product Specification



MRD* - Mandatory main rocking direction
Top* - Top view

Type	H1	H2	H3	H4	H5	H6	H7	H8	D1	D2	S_{max}*	RF**	S_{nom}***
7.5 t	89	44	17	23	11	6	28	75	28	69	4.5	11 kN	0.5
15 t												20 kN	0.6
22.5 t												30 kN	0.6
30 t	140	70	26	28	13	6.5	39	84	39	81	10.5	34 kN	0.29
40 t	150	75	31	33		11.7					10	37 kN	0.8
50 t	178	89	32	34	17	8.5	44	94	44	99	9	51 kN	1
100 t			38.5	38.5		12	62		62	141.3	11.5	152 kN	0.3
150 t	210	105	42.7	42.7	20.6	12.8	76.2	121.5	76.2	165	14.5	240 kN	0.35
300 t	280	140	55.9	55.9	25	21.5	100		100		15	468 kN	0.5

*S_{max} - maximum lateral displacement of load introduction. Recommended gap 2...3 mm for 7.5...22.5 t, 3...5 mm for 30...300 t.
**RF - restoring force at S_{max} and E_{max}.
***S_{nom} = deflection, max. elastic deformation under nominal load in mm

제품 사양 Specification

- RC3은 7.5~300ton 까지의 단일 칼럼 압축 로드셀로 컴팩트 한 사이즈에 견고한 제품
- Stainless Steel 구조와 완전 밀폐되며 다양한 계량 시스템에 적용
- ROCKER COLUMN 설계로 스케일 테크 이동시 최적의 정확도를 보장

Maximum capacity (E_{max})	t	7.5 / 15 / 22.5 / 30 / 40 / 50 / 100 / 150 / 300	7.5 / 15 / 22.5 / 30 / 40 / 50			
Accuracy class according to OIML R60		(GP)	C1	C3	C3 MI 6	C4
Maximum number of verification intervals (n_{LC})		n.a.	1,000	3,000		4,000
Minimum load cell verification interval (v_{min})		n.a.	E_{max} /5,000	E_{max} /15,000		
Temp. effect on minimum dead load output (TC_0)	%*RO/10°C	± 0.0400	± 0.0280	± 0.0093		
Temperature effect on sensitivity (TC_{RO})	%*RO/10°C	± 0.0200	± 0.0160	± 0.0100		± 0.0080
Combined error	%*RO	± 0.0500	± 0.0300	± 0.0200	± 0.0180	± 0.0180

Non-linearity	%*RO	± 0.0400	± 0.0300	± 0.0166	± 0.0166	± 0.0125
Hysteresis	%*RO	± 0.0400	± 0.0300	± 0.0166	± 0.0100	± 0.0125
Creep error (30 minutes) / DR	%*RO	± 0.0600	± 0.0490	± 0.0166	± 0.0083	± 0.0125
Option: Min. load cell verification interval (v_{min} opt)		n.a.	n.a.	E_{max} /10000	n.a.	n.a.
Option: Temp. effect on min. dead load output (TC_0 opt)	%*RO/10°C	n.a.	n.a.	± 0.0140	n.a.	n.a.
Minimum dead load (E_{min})		0%*E_{max} (30 / 40 / 50 / 100)		2%*E_{max} (7.5 / 15 / 22.5 / 150 / 300)		
Rated Output (RO)	mV/V	2 ± 0.1%				
Calibration in mV/V/Ω (A...I classified)	%	± 0.05 (± 0.005)				
Zero balance	%*RO	± 5				
Excitation voltage	V	5...15				
Input resistance (R_{LC})	Ω	1,150 ± 50				
Output resistance (R_{out})	Ω	1,000 ± 2				
Insulation resistance (100 V DC)	MΩ	≥ 5,000				
Safe load limit (E^{l}_{im})	%*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				
Protection according EN 60 529		IP68 (up to 2m water depth) / IP69K				
Packet weight	kg	1.3 (7.5t), 1.4 (15t), 1.5 (22.5t), 3.4 (30t), 3.6 (40t), 4.5 (50t), 12.9 (100t), 17.1 (150t), 32.8 (300t)				

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.

제품 특징 Features

- Stainless Steel 구조 / 밀폐 봉인 구조
- 높은 정밀도 / 밀폐 봉인 / 자가 복원 기둥 설계
- EN 60 529에 따른 보호 : IP 68
- 로드셀 케이블 : 폴리 우레탄 12 / 18m X 5mm