

Compression Type Load Cell Specifications DYLF-103S1

Special features

- Stainless steel construction
- Max. capacities from 0.5t to 100t
- Complies with OIML R60 regulations up to 3000d divisions
- Hermetically sealed (IP68; IP69K)
- Low profile and small deflection
- Applications: Container and tank weighing; and Industrial batching control system

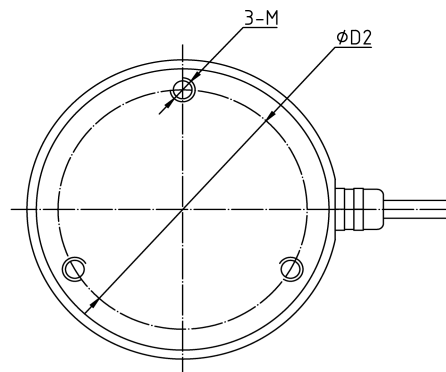
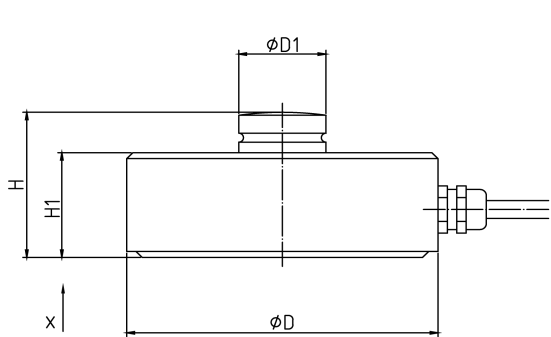


Option

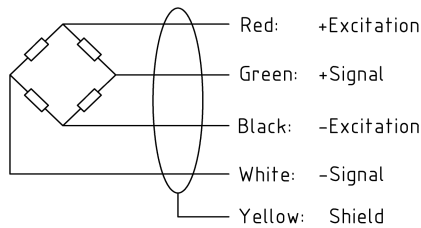
- Various cable lengths
- Explosion-proof versions



Dimensions



Cable Colour Code: (4-wire circuit)



Shield connected to load cell body

Rated Cap	ϕD	$\phi D1$	$\phi D2$	H	H1	M
t/mm						
0.5t - 10t	82	22	65	44	32	M6*1.0
15t - 30t	100	28	80	48.5	35	M8*1.25
50t	126	35	96	54	40	M8*1.25
100t	165	60	125	80	60	M10*1.5

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Parameter	Units	Specifications			
Model No.		DYLF-103S1			
Rated capacity (E_{max})	t	0.5 / 1 / 2.5 / 5 / 10 / 15 / 20 / 30 / 50 / 100			
Accuracy class ¹⁾²⁾		0.03% C3			
Min. dead load	kg	0			
Rated output	mV/V	2.0 ± 0.004			
Zero balance	% of E_{max}	± 1			
Y-value		6000		10000	
Repeatability error	% of AL ³⁾	$< \pm 0.015$		$< \pm 0.010$	
Creep; 30 minute	% of AL	$< \pm 0.030$		$< \pm 0.017$	
Min. dead load output return (DR); 30 min	% of AL	$< \pm 0.030$		$< \pm 0.017$	
Temp. effect on	Min. dead load output	% of $E_{max}/^{\circ}C$	$< \pm 0.0023$		$< \pm 0.0014$
	Rated output ²⁾	% of AL/ $^{\circ}C$	$< \pm 0.0020$		$< \pm 0.0012$
Temperature range	Compensated	$^{\circ}C (^{\circ}F)$	-10 to + 40 [+ 14 to +104]		
	Operating		-40 to + 65 [- 40 to +149]		
	Safe storage		-40 to + 80 [- 40 to +176]		
Excitation voltage	Recommended	V AC/DC	5 ~ 15		
	Maximum		15		
Terminal resistance	Excitation	Ω	766 ± 10		
	Output		700 ± 3		
Insulation resistance @50VDC		M Ω	> 5000		
Breakdown voltage		V AC	> 500		
Seal type / IP rating			Hermetically welded / IP68 IP69k		
Load limit	Safe	% of E_{max}	150		
	Ultimate		300		
Material	Spring element		Stainless steel		
	Strain gauge		PEEK		
	Cable		$\phi 6.5$; 4-wire; PVC		
Cable length	m	0.5-10t	15-100t		
		6.0	12.0		
Weight; approx	kg	0.5-10t	15-30t	50t	100t
		1.5	2.0	3.5	7.0
Fatigue life	cycles @ E_{max}	$> 1,000,000$			
Deflection at E_{max} ; approx	mm	< 0.5			
Barometric pressure effect on Zero Output	Vmin/kPa	< 1.0			

Notes:

- 1) 비선형성과 히스테리시스의 복합 효과로 인한 오차
- 2) 출력에 대한 온도 영향으로 인한 오차의 합은 OIML R60 및 NIST HB44요구 사항을 준수합니다.
- 3) AL = 적용 부하