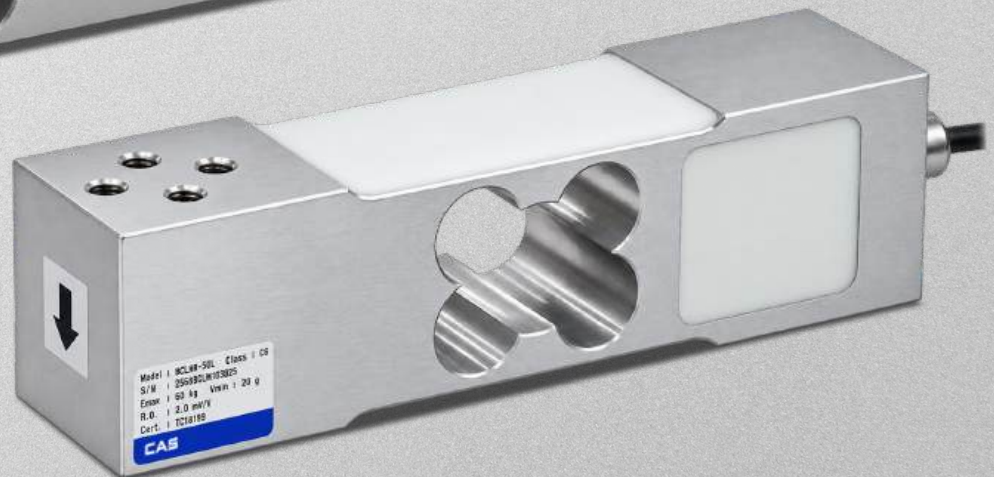


Single Point Load Cell

BCLHR series

CAS BCLHR is a high-resolution single point load cell with OIML R60 C6 approval, available in capacities from 3 to 200 kgf. It is an optimized solution engineered for various precision scales, such as commercial, platform, and counting scales.



CAS

BCLHR

3, 5, 6, 8, 10, 15, 20, 30, 35, 50L



Features

- Single point type
- High accuracy
- Designed according to IP65

Option

- OIML C6 Approved (OIML R60)

Application

- Commercial scale
- Platform scale
- Counting scale

Description

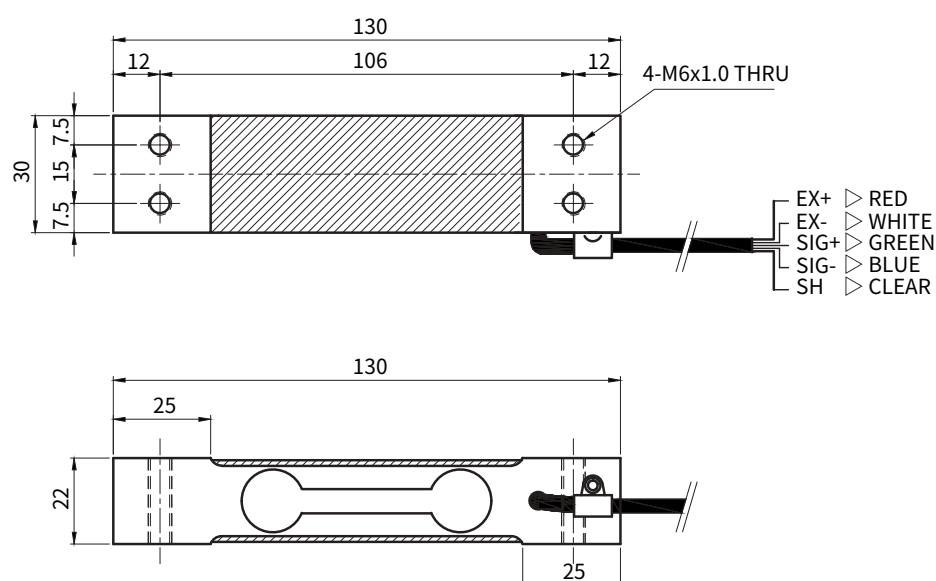
BCLHR(3 to 50kgf) is a low profile single point load cell of aluminum material. It is suitable for small-sized commercial, platform, and counting scales.

Specifications

Capacity(R.L.)	kgf	3, 5, 6, 8, 10, 15, 20, 30, 35, 50	
Rated Output	mV / V	2.0 ± 0.2	
Zero Balance	mV / V	0.0 ± 0.05	
Accuracy Class	-	C6	C3
Non-Linearity	% R.O.	≤0.012	≤0.025
Hysteresis	% R.O.	≤0.012	≤0.025
Repeatability	% R.O.	≤0.01	≤0.01
Creep for 30min.	% R.O.	≤0.008	≤0.017
Return for 30min.	% R.O.	≤0.008	≤0.017
Temperature Effect on	- Zero Value	%/10°C	≤0.014
	- Span Value	%/10°C	≤0.011
OIML Approval	- Number, OIML/Europe	-	R60/2021-A-NL1-26.07 / NMI TC13199
	- Class	-	C6
	- nmax	-	6,000
	- Y	-	3~10kgf: 8,800 / 15~50kgf: 12,000
	- PLC	-	0.7
	- Min. dead load	kg	0
	- Z	-	3~10kgf: 6,800 / 15~50kgf: 10,000
Excitation	- Recommended	V	10
	- Maximum	V	15
Resistance	- Input	Ω	410 ± 20
	- Output	Ω	350 ± 3.5
	- Insulation	MΩ	>2,000
Compensated Temperature Range	°C	-10 to +40	
Operating Temperature Range	°C	-30 to +80	
Material	-	Aluminum	
Cable Specification	-	Ø4 x 4P x 60cm (PVC)	
Safety Overload	% R.L.	150	

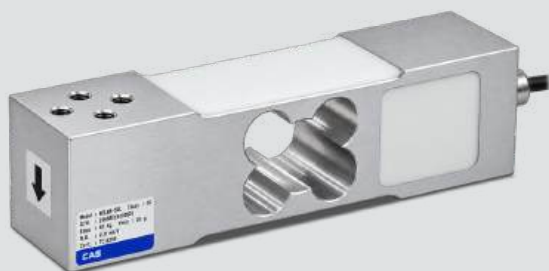
Dimensions

Unit : mm



BCLHR

60, 100, 150, 200L



Features

- Single point type
- High accuracy
- Designed according to IP65

Option

- OIML C6 Approved (OIML R60)

Application

- Commercial scale
- Platform scale
- Counting scale

Description

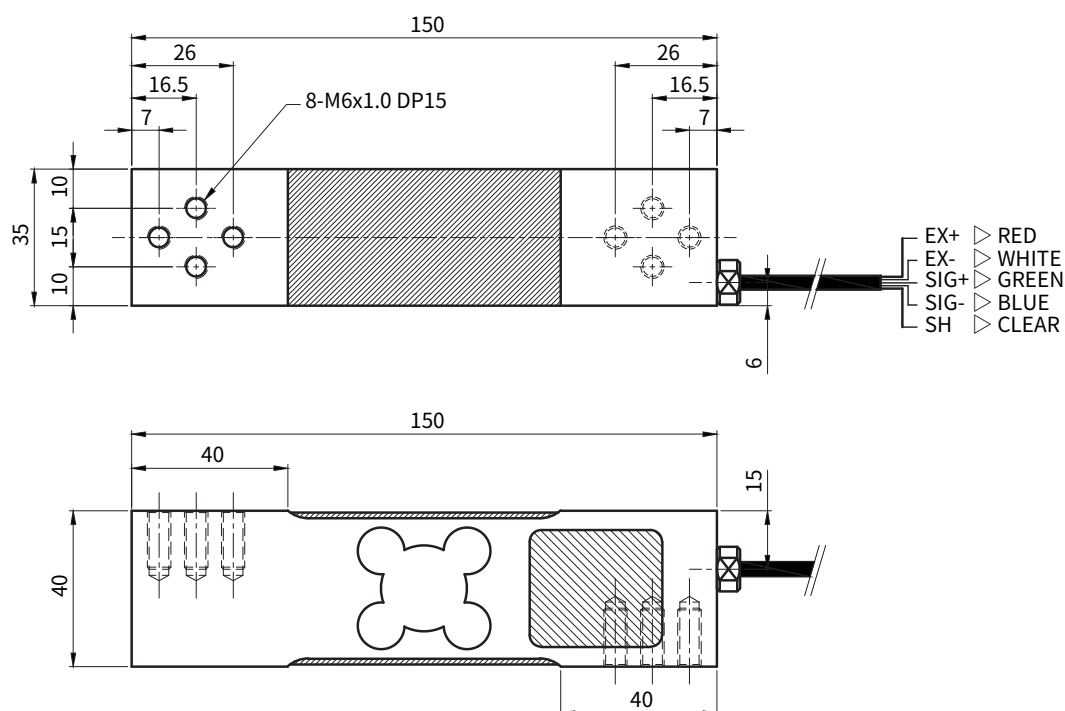
BCLHR(60 to 200kgf) is a single point load cell of aluminum material. It is suitable for medium-sized commercial, platform, and counting scales.

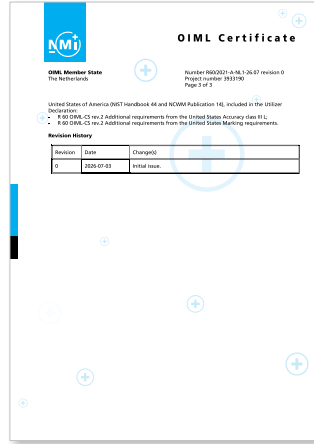
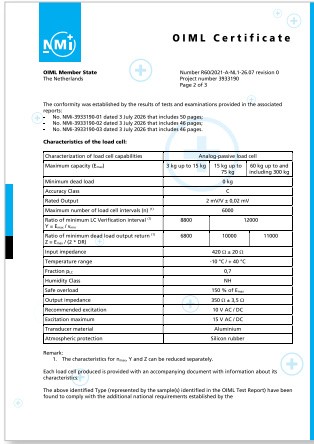
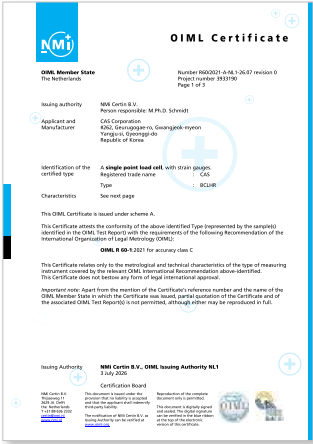
Specifications

Capacity(R.L.)		kgf	60, 100, 150, 200	
Rated Output		mV / V	2.0 ± 0.2	
Zero Balance		mV / V	0.0 ± 0.05	
Accuracy Class		-	C6	C3
Non-Linearity		% R.O.	≤0.012	≤0.025
Hysteresis		% R.O.	≤0.012	≤0.025
Repeatability		% R.O.	≤0.01	≤0.01
Creep for 30min.		% R.O.	≤0.008	≤0.017
Return for 30min.		% R.O.	≤0.008	≤0.017
Temperature Effect on	- Zero Value	%/10°C	≤0.014	≤0.014
	- Span Value	%/10°C	≤0.011	≤0.011
OIML Approval	- Number, OIML/Europe	-	R60/2021-A-NL1-26.07 / NMI TC13199	
	- Class	-	C6	C3
	- nmax	-	6,000	3,000
	- Y	-	12,000	6,000
	- PLC	-	0.7	0.7
	- Min. dead load	kg	0	0
	- Z	-	11,000	3,000
Excitation	- Recommended	V	10	
	- Maximum	V	15	
Resistance	- Input	Ω	410 ± 20	
	- Output	Ω	350 ± 3.5	
	- Insulation	MΩ	>2,000	
Compensated Temperature Range		°C	-10 to +40	
Operating Temperature Range		°C	-30 to +80	
Material		-	Aluminum	
Cable Specification		-	Ø4 x 4P x 2m (PVC)	
Safety Overload		% R.L.	150	

Dimensions

Unit : mm





CAS CORPORATION

262, Geurugogae-ro, Gwangjeok-myeon,
Yangju-si, Gyeonggi-do, Republic of Korea

TEL: 82 31 820 1100

Website: www.globalcas.com / www.cas.co.kr



* Specifications are subject to change without notice improvement.



OIML Certificate

OIML Member State
The Netherlands

Number R60/2021-A-NL1-26.07 revision 0
Project number 3933190
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Issuing authority

NMi Certin B.V.
Person responsible: M.Ph.D. Schmidt

Applicant and
Manufacturer

CAS Corporation
#262, Geurugogae-ro, Gwangjeok-myeon
Yangju-si, Gyeonggi-do
Republic of Korea

Identification of the
certified type

A **single point load cell**, with strain gauges.

Registered trade name : CAS

Type : BCLHR

Characteristics

See next page

This OIML Certificate is issued under scheme A.

This Certificate attests the conformity of the above identified Type (represented by the sample(s) identified in the OIML Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

OIML R 60-1:2021 for accuracy class C

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation above-identified.
This Certificate does not bestow any form of legal international approval.

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Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
3 July 2026

Certification Board

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Project number 3933190
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The conformity was established by the results of tests and examinations provided in the associated reports:

- No. NMI-3933190-01 dated 3 July 2026 that includes 50 pages;
- No. NMI-3933190-02 dated 3 July 2026 that includes 46 pages;
- No. NMI-3933190-03 dated 3 July 2026 that includes 46 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell		
Maximum capacity ($E_{\max}$)	3 kg up to 15 kg	15 kg up to 75 kg	60 kg up to and including 300 kg
Minimum dead load	0 kg		
Accuracy Class	C		
Rated Output	2 mV/V $\pm$ 0,02 mV		
Maximum number of load cell intervals (n) ⁽¹⁾	6000		
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{\max} / v_{\min}$	8800	12000	
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{\max} / (2 * DR)$	6800	10000	11000
Input impedance	420 $\Omega \pm 20 \Omega$		
Temperature range	-10 °C / + 40 °C		
Fraction p_{LC}	0,7		
Humidity Class	NH		
Safe overload	150 % of $E_{\max}$		
Output impedance	350 $\Omega \pm 3,5 \Omega$		
Recommended excitation	10 V AC / DC		
Excitation maximum	15 V AC / DC		
Transducer material	Aluminium		
Atmospheric protection	Silicon rubber		

Remark:

1. The characteristics for $n_{\max}$, Y and Z can be reduced separately.

Each load cell produced is provided with an accompanying document with information about its characteristics.

The above identified Type (represented by the sample(s) identified in the OIML Test Report) have been found to comply with the additional national requirements established by the



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United States of America (NIST Handbook 44 and NCWM Publication 14), included in the Utilizer Declaration:

- R 60 OIML-CS rev.2 Additional requirements from the United States Accuracy class III L;
- R 60 OIML-CS rev.2 Additional requirements from the United States Marking requirements.

Revision History

Revision	Date	Change(s)
0	2026-07-03	Initial issue.