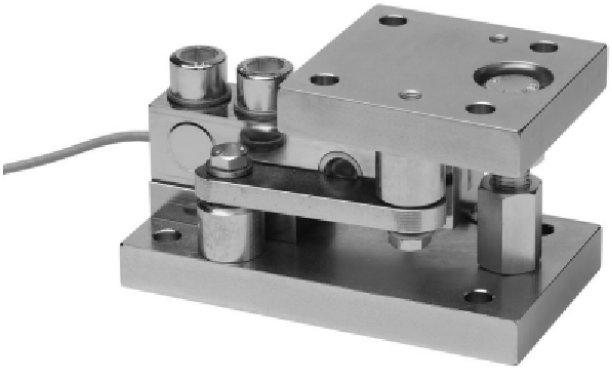
DATA SHEET

HLCiM...
Weighing module for 110 kg to 4.4 t

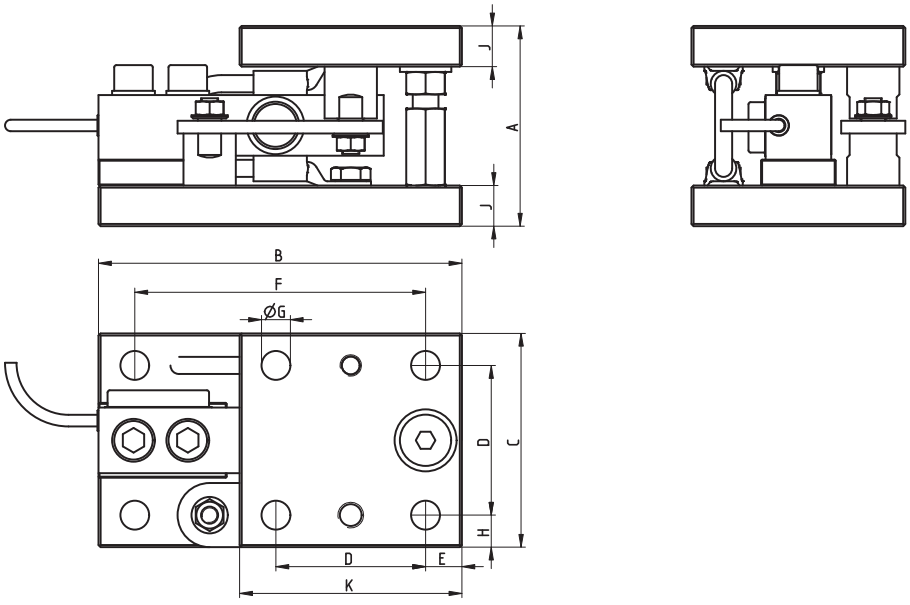
SPECIAL FEATURES

- Equipped with HLCi load cell and IO-Link interface, RS485, CAN or voltage or current output
- Accuracy: 0.03% or 0.05%
- Minimal construction height for space-saving installation
- With stay rod
- Self-aligning with pendulum bearing
- Stainless steel
- With anti-lift off device and lifting device
- Including optional M12 male connector



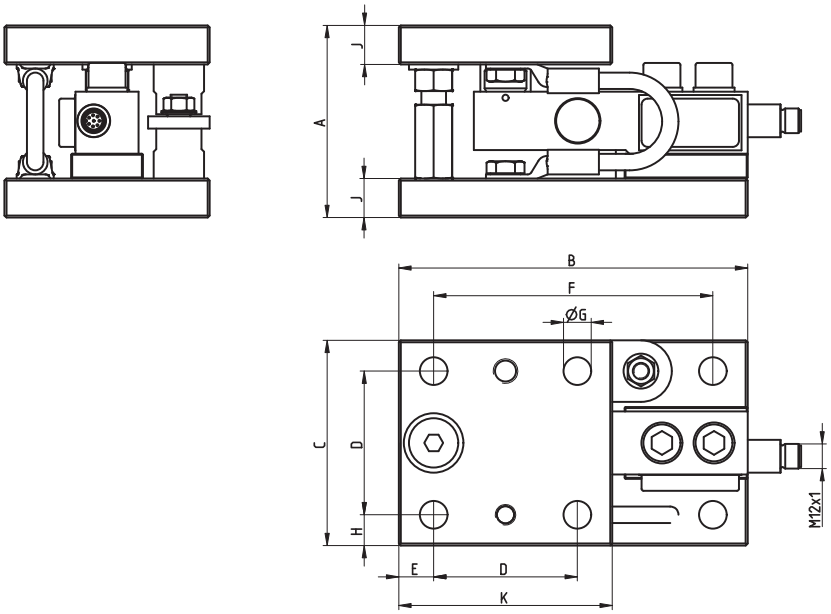
DIMENSIONS

Design of right stay rod and securely mounted cable



Maximum capacity	Tightening torque, rust-proof (Nm)	A	B	C	D	E	F	ØG	H	J	K
110 kg, 220 kg, 550 kg, 1.1 t, 1,76 t	90	$93.6^{\pm 1.6}$	170	100	70	17	136	13.5	15	19	104
2.2 t	400	$125.3^{\pm 1.6}$	220	120	84	25.5	175	14	18	23	135
4.4 t	400	$125.3^{\pm 1.6}$	220	120	84	25.5	175	14	18	23	135

Design of right stay rod and M12 male connector



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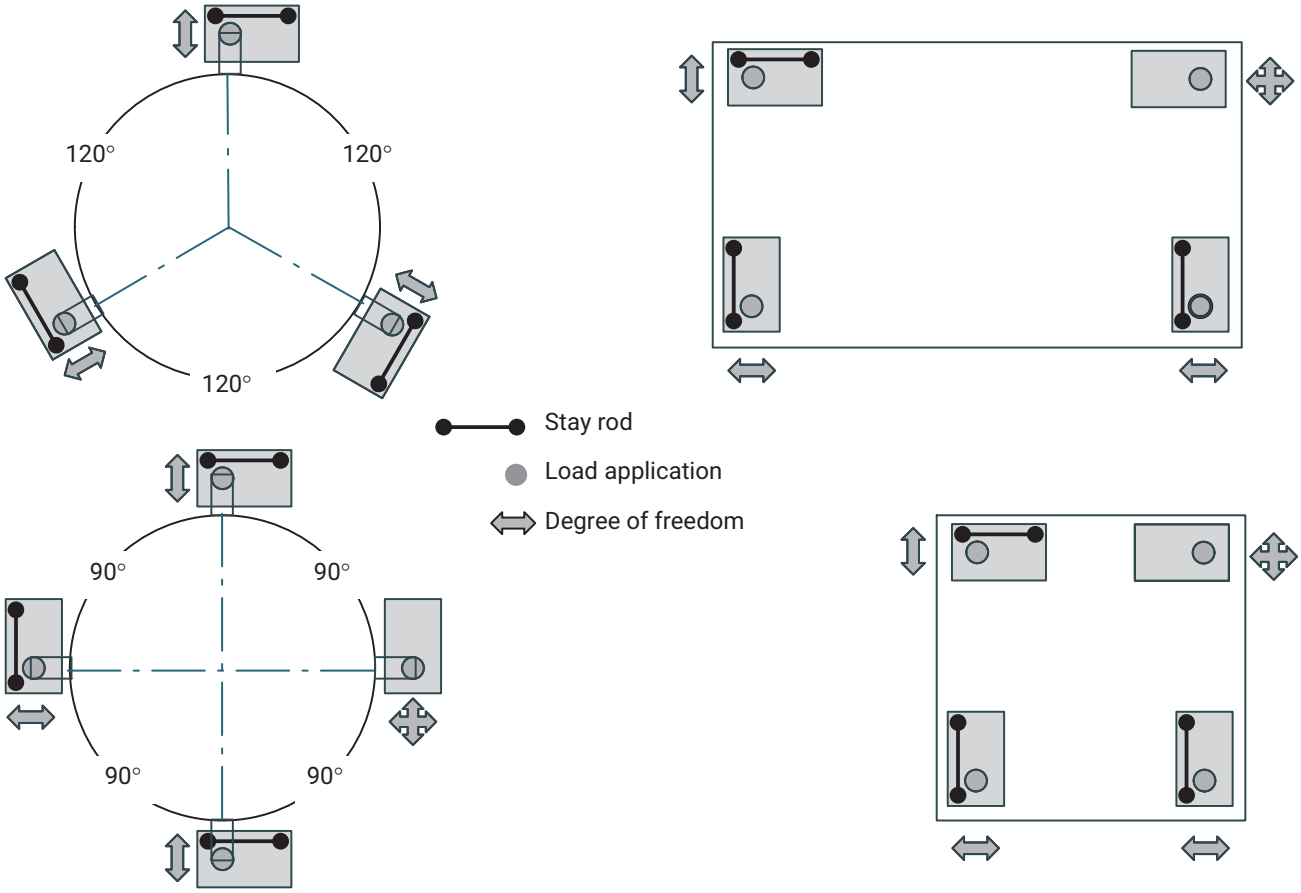
SPECIFICATIONS HLCiM...

Maximum capacity		110 kg; 220 kg; 550 kg; 1.1 t; 1.76 t	2.2 t; 4.4 t
Maximum capacity			
Limit load HLC/MLB... HLC/MLBR...	% of maximum capacity	150 120	
Breaking load	% of maximum capacity	200	
Restoring force (for 1 mm lateral displacement)	% applied load	7.7	
Max. lateral displacement transverse to the stay rod axis	mm	1.5	
Max. static horizontal force in the stay rod direction	kN	10	22
Max. lifting force	kN	20	44
Material		galvanized or stainless steel	
Weight version-dependent, including load cell	kg	7 ... 10	

INSTALLATION EXAMPLES FOR WEIGHING MODULES WITH STAY RODS



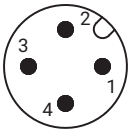
SCOPE OF SUPPLY

Complete weighing module mounted with pendulum bearing, ground cable, stay rod and HLCi type load cell

PIN ASSIGNMENT RMIO (IO-LINK)

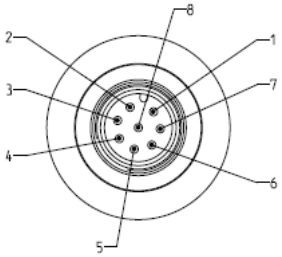
Pin	Assignment
1	Supply voltage +
2	Digital output (DI/DO pin function)
3	Supply voltage -, reference potential
4	IO-Link data (C/Q)

Class A



Connector plug
M12 male connector,
4-pin, A-coded

PIN ASSIGNMENT 105R/C (RS485/CAN), RM42/RM43 (CURRENT/VOLTAGE OUTPUT)



M12 male connector,
8-pin

Pin	Version 105R (RS485)	Version 105C (CAN)	Version RM42 (current output)	Version RM43 (voltage output)	KAB159, KAB192 connection cable wire assignment
1	Bridge excitation voltage 0 V (GND)				White
2	Digital IN	Digital IN	Calibration control input		Brown
3	TA/RA	CAN HIGH IN	Zeroing control input		Green
4	Digital OUT	Digital OUT	Vacant		Yellow
5	TB/RB	CAN LOW IN	OUT 4...20 mA	OUT 0 ... 10 V	Gray
6	Vacant	CAN LOW OUT	Vacant	OUT GND	Pink
7	Vacant	CAN HIGH OUT	Vacant		Blue
8	Supply voltage				Red

6-PIN CABLE ASSIGNMENT (RS485/CURRENT OUTPUT/VOLTAGE OUTPUT)

Cable wire assignment with fixed cable	Version 105R (RS485)	Version RM42 (current output)	Version RM43 (voltage output)
White	Bridge excitation voltage 0 V (GND)		
Black	TB/RB	Calibration control input	
Green	Digital OUT	Zeroing control input	
Gray	Digital IN	OUT 4...20 mA	OUT 0 ... 10 V
Blue	TA/RA	Vacant	OUT GND
Red	Supply voltage		

HLCIM MODULE (INCL. LOAD CELL HLCi...), OPTIONAL VERSIONS

Ordering no.		
K-HLCiM weighing module with digital HLCi load cells		
1	Code	Option 1: Material
	RSR	Stainless steel weighing module
2	Code	Option 2: Accuracy class
	3	0.03% [only for option 6 = 105R, 105C, RMIO] (RS485, CAN, IO-Link)
	5	0.05% [only for option 6 = RM42, RM43] (current output, voltage output)
3	Code	Option 3: Maximum capacity
	110	110 kg [not with option 5 = N]
	220	220 kg
	550	550 kg
	1100	1.1 t
	1760	1.76 t
	2200	2.2 t
	4400	4.4 t
4	Code	Option 4: Explosion protection
	N	No explosion protection available
5	Code	Option 5: Cable
	3	3 m PVC cable [not with option 6 = 105C, RMIO]
	M12A4	M12 A-coded, male, 4-pin [only with option 6 = RMIO]
	M12A8	M12 A-coded, male, 8-pin [not with option 6 = RMIO]
6	Code	Option 6: Electronics
	105R	RS485 (200 S/s) 2-wire
	105C	CAN (200 S/s)
	RM42	Analog 4-20 mA
	RM43	Analog 0-10 V
	RMIO	IO-LINK
7	Code	Option 7: Firmware version
	N	NA [not with option 6 = RMIO]
	02	RMIO v1.0.7 [only with option 6 = RMIO] (IO-Link)
8	Code	Option 8: Ground cable
	S	EEK standard
	H	EEK hygiene

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