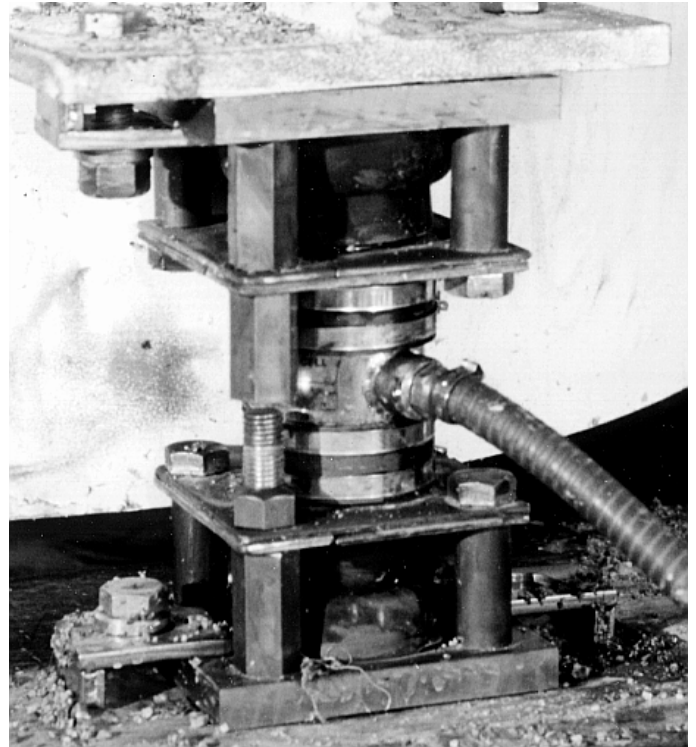


WEIGH MODULE M, 5 - 40 t

A COMPLETE PACKAGE FOR LOAD MEASUREMENT

- **A complete unit with load cell and built-in hardware**
- **Ready for installation under the load carrier**
- **Self-stabilizing and compliant to horizontal forces and movements**
- **Prevents load carrier tipping by taking up tractive forces**
- **Attachment bolts are only needed for tractive forces and inadvertent horizontal forces**



The Weigh Module M is a load sensing component in S.E.G. scale systems. This weigh module is a new concept whose design is patented in a number of countries.

A single unit combines a load cell and the installation hardware usually employed. They jointly constitute a single unit ready for insertion under the load carrier. With this weigh module, the load carrier does not require any stay rods.

Load carriers always give rise to disruptive horizontal forces and angular deformations. The Weigh Module M balances these forces via roller bearings.

Disruptive forces are therefore directly transformed into movements. So no slipping or major friction forces form and therefore no wear takes place.

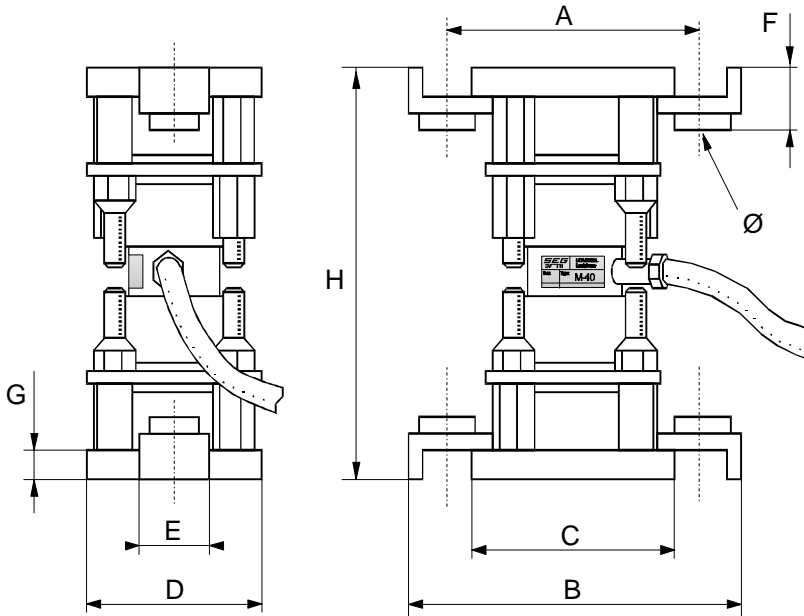
The compliant movements create self-stabilizing counter-forces which strive to return the load carrier to its original position. These self-stabilizing forces also make it easy to adjust the Weigh Module M to a desired original position during installation.

The Weigh Module M also takes up unintentional tractive forces, such as wind forces or other external forces, which attempt to tip the load carrier.

The Weigh Module M is available for rated loads from 5 tons to 40 tons. It is designed for heavy-duty industrial use with a stainless steel enclosure for the load cell and shield tube for the connecting cable.

The load cell can be replaced without removing the entire weigh module from the load carrier.

DIMENSIONS



For information regarding function and mounting, refer to installation guide S31-20.

The weigh module is patented with the following no:

EP nr. 0 327 517

USA nr. 4,939,938

S nr. 460 310

CAPACITY	A	B	C	D	E	F	G	H	Ø
5t,10t	165	225	140	125	50	30	16	242	17
20t,40t	235	310	200	200	75	50	25	370	25

Measures in millimeter

TECHNICAL DATA

MECHANICAL DATA		LASTGIVARBETECKNINGAR			
		M5	M10	M20	M40
Nominal load (NL)	t	5	10	20	40
Maximal load	t	8	12	32	50
Max.allowed load - transient without resulting persistent error	t	10	15	40	60
Breaking load	t	40	40	100	100
Mechanical deformation for nominal load, approx.	mm	0,1	0,2	0,1	0,2
Max. allowed horizont. move between upper and lower section	mm	± 5	± 5	± 7	± 7
Restorative horizontal load in relation to simultaneous load/mm of horizontal movement	%	1,5	1,5	1	1
Max. allowed transient tractive load	t	2,5	2,5	10	10
Weight with 7m cable	kg	13,6	14,6	46,5	47,2
ELECTRICAL DATA					
Nominal output signal in relation to input voltage	mV/V	1			
Calibration tolerance in relation to current load	%	± 0,1			
Zero error in relation to nominal output signal	%	± 1			
Combined error (hysteresis and non-linearity) in relation to NL	%	± 0,03			
Repeatability error in relation to NL	%	± 0,01			
Creep after 30 min. at NL	%	± 0,03			
Creep after 8 hours at NL	%	± 0,05			
Influence of temperature on zero point in relation to NL	%	± 0,05/10K			
Influence of temperature on measuring range in relation to NL	%	± 0,04/10K			
Compensated temperature range	°C	-10.....+50			
Max. operating temperature	°C	70			
Input resistance	Ω	430 ± 10			
Output resistance	Ω	430 ± 0,4			
Recommended input voltage	V	15			
Max. input voltage	V	21			
Protective class		IEC IP67			
Cable: length 7m. Markings: input: +yellow (1,01), -blue (4,04), output: +red (2), -green (3)					
The may be delivered (option -EEx) in EEx version. Class: EEx ia IIC T4 -10 - +40 acc. to CENELEC standard, for connection to EEx equipment acc. to type approval of KEMA Nederlands B.V. no.Ex-94.D.8974. This includes the 500 volts circuit isolation test.					