



Applications:

The bending load cell type 54 can be used in small loading capacity weighing systems.

Some applications are:

- Belt conveyor scale and weight feeders
- Small weighing platforms
- Weighing in hopper, tanks, etc.

Main features:

- Water-proof
- Universal use
- Available with output **CANopen** (CIA 404)
- Available with analog output 4-20mA
- Stainless steel body with bellow microplasma soldered
- High precision (equivalent to OIML C3)
- ATEX certification

Nominal load:

kg 2-5-10-20-50-100-200-300-500



**BENDING
LOAD CELL
TYPE 54**

Specification according to VDI/VDE 2637

Metrological Characteristics	Par.	Un.	
Combined Error	Fcomb	±%Ln	0,035
Initial Load	Ln	Kg	2÷500
Minimum Load	Lp	%Ln	25
Maximum Load	Ll	%Ln	150
Linearity	Flin	±%Ln	0,02
Hysteresis	Fu	±%Ln	0,015
Repeatability	Fv	±%Ln	0,01
Creep (in 30')	Fcr	±%Ln	0,02
Nominal Temperature Range	Btn	°C	-10+40
Zero Temperature Drift (10÷60°C, over 10°C)	TKo	±%Cn	0,065
Output Temperature Drift (10÷60°C, per 10°C)	TKC	±%Cn	0,035
Thermal Gradient		K/h	<5

Electrical Data			
Nominal Output	Cn	mV/V	2
Nominal Output Tolerance	Dc	±%Cn	0,1
Nominal Supply Voltage	Bsu	V	1÷12
Maximum Supply Voltage	Usmax	V	15
Input Resistance	Re	Ω	390±10%
Output Resistance	Ra	Ω	350±1%
Insulation Resistance @20V	Ris	MΩ	>2000
Zero balance	Do	±%Cn	1

Mechanical Data			
Breaking Load	Ld	%Ln	>300
Maximum Side Load	Llq	%Ln	100
Deflection	hn	mm	<0,5
Cable Length		m	5
Weight		Kg	0,6

Environmental Conditions			
Working Temperature Range	Btn	°C	-40+80
Storage Temperature Range	Bts	°C	-40+80
Housing Protection			IP 66/68

Subject to change without notice

