

# G8RD DUAL

compression load cell

## Digital with Dual connector



CAPACITIES:

**18 TO 50t**

MATERIAL:  
STAINLESS STEEL

MODELS:  
- SELF-CENTERING ROCKER  
COLUMN  
- FLAT FACE (-CP)

ACCURACY :  
OIML CLASS C4



**GIROPES**  
WEIGHING SOLUTIONS



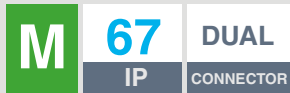
GIROPES

## G8RD DUAL G8RD DUAL-CP



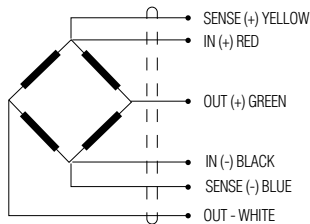
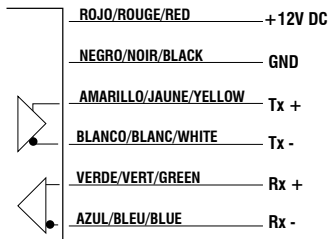
### DIGITAL COMPRESSION

min 18.000 kg  
max 50.000 kg



#### APPLICATIONS

High capacity load cell ideal for weighbridges



## Optimise your weighbridge with the technology RS485 Fullduplex

The G8RD Dual is a dual connector digital compression load cell designed to take measurement in industrial environments to the next level. Its digital technology eliminates noise and drifts, ensuring an accurate signal without the need for manual adjustments.

#### Key Benefits:

- › **Noise Elimination and Bypasses:** Digital conversion reduces interference and eliminates the need for manual adjustments.
- › **Higher Accuracy and Resolution:** Digital load cells offer improved linearity and error compensation, providing reliable results.
- › **Ease of Diagnosis and Maintenance:** Remote monitoring of the cell status allows immediate fault detection and facilitates rapid diagnosis.
- › **Calibration and Automatic Adjustment:** The system eliminates the need for periodic manual adjustments, optimising operability compared to analogue solutions.
- › **Interconnection of Multiple Load Cells:** The RS485 interface allows several load cells to be stably connected on the same bus, facilitating integration into complex systems.
- › **Cable Reduction:** Integrated technology simplifies installation and reduces costs associated with cabling in industrial environments.

## Main features

Digital Compression Load Cell with Dual Connector.

Stainless Steel Construction.

Hermetically Sealed, IP67 Protection.

Lightning Protection.

4,000 divisions — OIML R60 Class C.

RS485 Full-Duplex Digital Interface.

Easy to Install.

Configuration and Software Update via Serial Interface.

Optimized for Commissioning, Corner Adjustment, and Diagnostics.

Stainless Steel Connectors Laser Welded to the Load Cell Body.

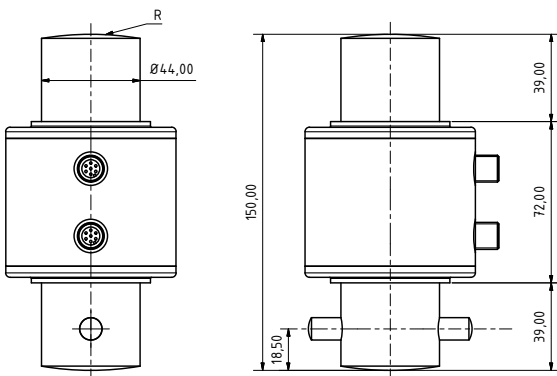


## Specifications

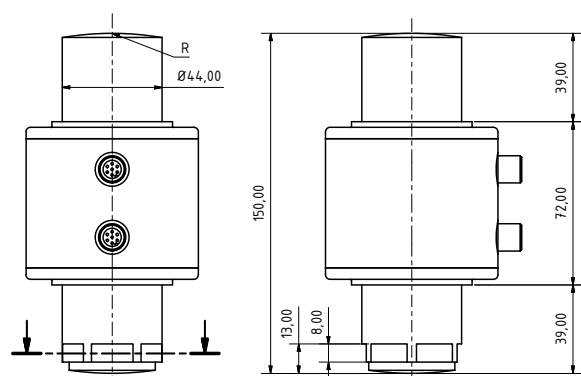
<b>Maximum capacity (<math>E_{max}</math>)</b>	18,20,30,40,50 t
<b>Accuracy class</b>	C4 according to OIML
<b>Minimum dead load</b>	0 kg
<b>Safe Overload</b>	120% $E_{max}$
<b>Ultimate Load</b>	150% $E_{max}$
<b>Combined Error</b>	$<\pm 0.013\% C_n$
<b>Repeatability Error</b>	$<\pm 0.015\% C_n$
<b>Creep (30 minutes)</b>	$<\pm 0.016\% C_n$
<b>Operating Temperature Range</b>	-10°C ... +40°C
<b>Rated Output (<math>C_n</math>)</b>	200000 $\pm$ 0,05% counts
<b>Recommended Excitation Voltage</b>	7-13 V DC
<b>Maximum Excitation Voltage</b>	12 V
<b>Excitation Current</b>	78 mA (max.)
<b>RS485 Serial Interface</b>	Full-Duplex
<b>Maximum Transmission Cable Length</b>	1200 m
<b>No load output</b>	$\pm 2\% C_n$
<b>Maximum deflection (at <math>E_{max}</math>)</b>	0,6 - 1 mm

## Dimensions

G8RD Dual

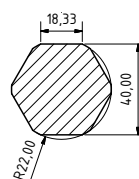


G8RD Dual-CP



Dimensions (mm)

$E_{max}$ (t)	R
20	130
30	160
40-50	180



**G8RD DUAL**

			VERSION	
			G8RD DUAL	G8RD DUAL-CP (FLAT FACE)
Maximum capacity $E_{max}$ (t)	OIML class	$Y = E_{max} / v_{min}$	# Code	# Code
20	C4	15000	231286	231291
30	C4	15000	231287	231292
40	C4	15000	231288	231293
50	C4	15000	231289	231294

**ACCESSORIES**

# Code	Descripción	G8RD DUAL	G8RD DUAL-CP
240036	Pendular Ring Set for G8RD Zinc-Plated	•	
240184	Pendular Ring Set in Stainless Steel	•	
240261	Pendular Ring Set in Stainless Steel		•
240040	Anti-Lifting Mounting Kit for Silo for G8RD Load Cells (unit) up to 50 t	•	•
240037	Top Plate for fixing the ring set to a structure (for one load cell)	•	•
240038	Bottom Plate for fixing the ring set to the floor (for one load cell)	•	•

**Opcional Armored Cable**

CELL-TO-CELL CABLE	
# Code	meters (m)
245083	5
245084	7
245085	9
245086	11

CABLE BETWEEN CELLS AND INDICATOR	
# Code	meters (m)
245091	15
245092	30
245093	50
245094	100



**G8R Series**



Name	Models (depending on load)	Armoured Cable Option	Maximum - minimum capacity $E_{max}$ (t)	OIML class	$Y = E_{max} / v_{min}$
G8R	18, 20, 25, 30, 35, 40, 50	Yes	18 - 50	C4	15000
G8R CP	18, 20, 25, 30, 35, 40, 50	Yes	18 - 50	C4	15000
G8RD	18, 20, 30, 40, 50	Yes	18 - 50	C4	15000
G8RD CP	18, 20, 30, 40, 50	Yes	18 - 50	C4	15000
G8RD Dual	20, 30, 40, 50	Yes	18 - 50	C4	15000
G8RD Dual CP	20, 30, 40, 50	Yes	18 - 50	C4	15000