

TENSION LINK LOAD CELL



- CAPACITY 5 ... 20 T
- 17-4 PH STAINLESS STEEL · IP68
- HOLES FOR STANDARD SHACKLES
- COMBINED ERROR $\leq \pm 0.03 \%$



IP68



Stainless
Steel
17-4 PH · 1.4542



mV/V



NOMINAL LOAD (FS)

kg	kN	Net weight (kg)
5 000	50	4.5
10 000	100	4.6
20 000	200	6.6

Manufactured according to OIML R60.



OVERVIEW

A tension link load cell of 17-4 PH stainless steel for 5 t, 10 t and 20 t: it is hung into the load path with shackles and measures the tensile force with a combined error of at most $\pm 0.03\%$.

Manufactured according to OIML R60 and protected to IP68. It is connected via a 10 m six-wire cable with sense lines. On request the link is available with two redundant bridges and two output cables for dual safety systems, and in versions for potentially explosive atmospheres.

5 ... 20 t capacities	$\leq \pm 0.03\%$ combined error	2 mV/V rated output	IP68 protection class
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MEASUREMENT	DESIGN
capacities 5 000, 10 000 and 20 000 kg	17-4 PH stainless steel, IP68
combined error $\leq \pm 0.03\%$	holes for standard shackles
rated output 2 mV/V $\pm 0.1\%$	10 m cable, 6 $\times$ 0.14 mm²
manufactured according to OIML R60	option: two redundant bridges



TECHNICAL DATA

PRECISION

Combined error	$\leq \pm 0.03 \%$
Creep at nominal load (30 min)	0.03 %
Temperature effect on zero	0.005 % / °C
Temperature effect on span	0.003 % / °C
Zero balance	$\pm 1 \%$

MECHANICAL PROPERTIES

Type	tension link
Material	17-4 PH stainless steel
Mounting	holes for standard shackles
Deflection at nominal load	0.3 mm
Net weight	4.5 kg (5 t) · 4.6 kg (10 t) · 6.6 kg (20 t)

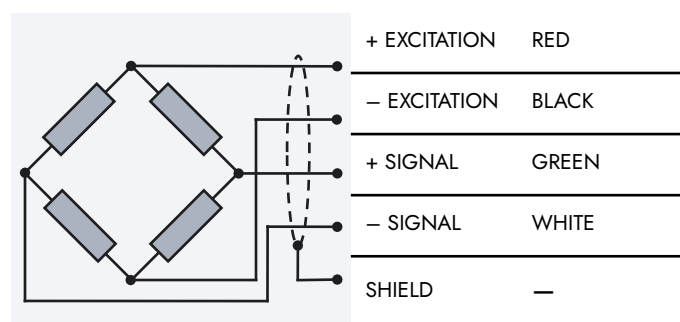
ELECTRICAL PROPERTIES

Rated output	2 mV/V $\pm 0.1 \%$
Input resistance	350 $\pm 5 \Omega$
Output resistance	350 $\pm 5 \Omega$
Insulation resistance	> 5 000 M Ω
Max. supply voltage without damage	15 V
Cable	Ø 5 mm, 6 × 0.14 mm ² , 10 m
Sense lines	+ blue · – yellow/brown

TEMPERATURE

Compensated range	–20 ... +70 °C
Operating temperature range	–30 ... +90 °C

ELECTRICAL CONNECTION



MECHANICAL LIMITS (REFERRED TO NOMINAL LOAD)

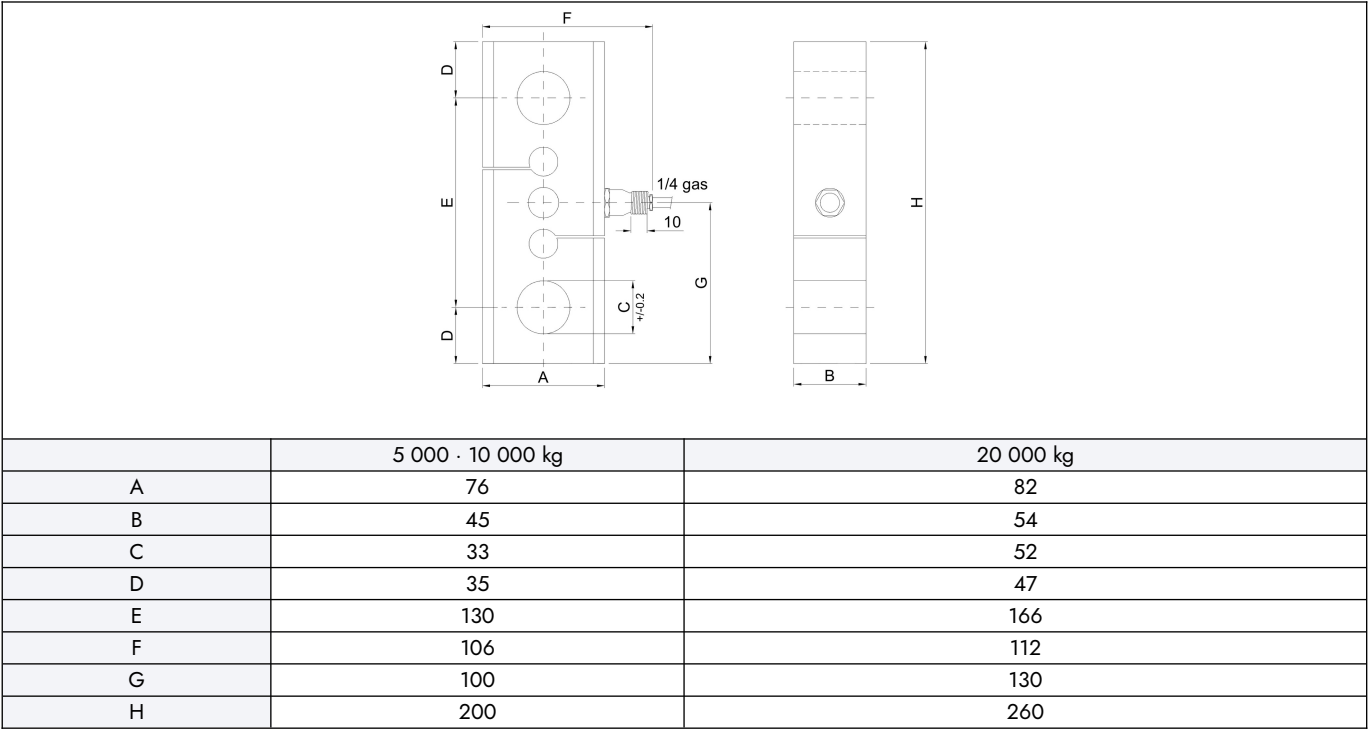
Safe overload	150 %
Ultimate overload	300 %

OPTION ON REQUEST

Redundant bridges	two strain gauge Wheatstone bridges (350 Ω) with two output cables, for dual safety systems
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DIMENSIONS (mm)



Dimensions in mm; the letters refer to the drawing. Tolerance C ± 0.2 mm. Cable gland 1/4 gas.

COMPLIANCE AND CERTIFICATION

Protection Rating	IP68	
Compliance	CE	
Calibration	Linearity test on request	
Certifications		Complies with the Eurasian Customs Union standards
		UKCA marking for the United Kingdom
Certifications (on request)		ATEX II 1GD (zone 0-1-2-20-21-22)
		IECEx (zone 0-1-2-20-21-22)
		EAC Ex – potentially explosive atmospheres (Eurasian Customs Union)
		Chinese Ex (NEPSI)

