

Characteristics

0300 - LOAD MEASUREMENT - FORCE -

	- Measurement ranges:	0...20 kg up to 0...10000 kg
	- Input resistance:	410 ±10 Ω (type A) / 400 ±5 Ω (type E/L)
	- Output:	3 mV/V / 2 mV/V (type dependent)
	- Output resistance:	350 ±3 Ω
	- Insulation resistance:	> 5000 MΩ (at 50 VDC)
	- Accuracy:	±0,02% of terminal value
	- Operating temperature:	-20...+40 °C up to -35...+70 °C (type)
	- Protection class:	IP66 / IP67 (type dependent)
	- Material:	various (type dependent)
	- Supply voltage:	9...18 VDC/VAC / 10...15 VDC/VAC
	- Connection:	various lengths (polyurethan)

Technical Data

Input

Measurement ranges:	Type A:	0...20 kg up to 0...500 kg
	Type E/L:	0...500 kg up to 0...10000 kg
Input resistance:	Type A:	410 ±10 Ω
	Type E/L:	400 ±5 Ω
Insulation resistance:	>5000 MΩ bei at VDC	

Output

Output signal:	Type A:	2 ±0,1 mV/V
	Type E/L:	2 ±0,1 mV/V / 3 ±0,004 mV/V
Output resistance:	350 ±3 Ω	

Accuracy

Linearity / Hysteresis:	±0,02 % of terminal value	
Repeatability:	±0,01 % of terminal value	
Creepage:	±0,02 % of terminal value	
Temperature coefficient:	of span:	±0,02 % of measurement range / 10 °C
	at zero type A:	±0,02 % of measurement range / 10 °C
	at zero type E/L:	±0,03 % of measurement range / 10 °C
Zero point error:	±1% of terminal value	

Supply

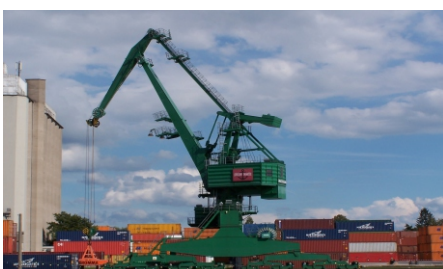
Recommended:	Type A:	9...12 VDC/VAC
	Type E/L:	10 VDC/VAC
Maximal:	Type A:	18 VDC/VAC
	Type E/L:	15 VDC/VAC

Environmental Conditions

Operating temperature:	Type A:	-35...+65 °C
	Type E/L:	-35...+70 °C
Compensation:	Type A:	-10...+40 °C
	Type E/L:	-10...+55 °C

Applications

The shear force transducer SKA8C is suitable for applications in all areas which make measuring of weights necessary, for example electronic vehicle scales, platform scales, funnels, silos and in theater stage technology. The load cells are manufactured from high quality materials and are both flexible and robust.

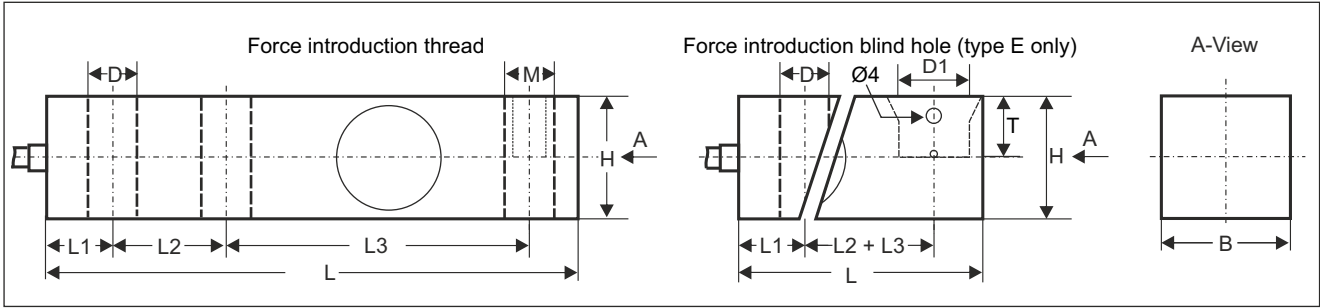


● Technical Data (Continued)

Mechanics

Dimensions:	see page 3	
Material:	Type A:	Aluminum alloy
	Type E:	stainless steel
	Type L:	alloy steel
Surface:	Type A:	anodized
	Type L:	nickle-plated
Protection class:	Type A/E/L:	IP66
	Type E/L:	IP67
Note: IP67: Laser welded seals		
Weight:	Type A (20...500 kg):	approx. 1 kg
	Type E/L (500...1500 kg):	approx. 1,3 kg
	Type E/L (2000 kg):	approx. 1,5 kg
	Type E/L (2500...3000 kg):	approx. 1,8 kg
	Type E/L (5000 kg):	approx. 3 kg
	Type E/L (7500...10000 kg):	approx. 5,8 kg
Cable:	Type A:	3 m polyurethane, shielded, 4-wire
	Type E/L:	6 m polyurethane, shielded, 4-wire
	Option (Type A and E/L):	6-wire
Overload:	Type A:	Working load 120% of terminal value Maximum load 200% of terminal value
	Type E/L:	Working load 120% of terminal value Maximum load 200% of terminal value

● **Dimensions (in mm)**



Model	Ranges	L	L1	L2	L3	H	B	D	M	D1	T
Type A	20...500 kg	130	15,8	25,4	76,2	32	32	$\varnothing 13,5$	M12 x 1,75	-	-
Type E / L	500...2000 kg	130	15,8	25,4	76,2	31,8	31,8	$\varnothing 13,5$	M12 x 1,75	18	15
Type E / L	2500...5000 kg	171,5	19,1	38,1	95,3	38,1	38,1	$\varnothing 19,8$	M20 x 1,5	25	20,5
Type E / L	7500...10000 kg	222,2	25,4	50,8	120,6	50,8	50,8	$\varnothing 26,2$	M24 x 2,0	30	31

● **Order Code**

C	A	X	X	X	X	X	X	-	X	X	X
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Output:	3 mV/V (on request)	0									
	2 mV/V	1									
Measurement range:	0...20 kg	8									
	0...30 kg	9									
	0...50 kg	A									
	0...100 kg	B									
	0...200 kg	C									
	0...350 kg	D									
	0...500 kg	0									
	0...1000 kg	1									
	0...1500 kg	2									
	0...2000 kg	3									
	0...2500 kg	4									
	0...3000 kg	5									
	0...5000 kg	6									
	0...7500 kg	E									
	0...10000 kg	F									
Force introduction:	Bore continuous with thread 1/2 continuous	0									
	Blind hole (on request and for type E only)	8									
Material:	Tool steel IP66	0									
	Stainless steel IP66	1									
	Tool steel IP67	2									
	Stainless steel IP67	3									
	Aluminum alloy	4									
Connection:	6 m cable 4-wire shielded (type E/L)	0									
	6 m cable 6-wire shielded (on request)	1									
	3 m cable 4-wire shielded (type A)	2									
	3 m cable 6-wire shielded (on request)	3									
Accuracy:	0,02% of terminal value	0									
	OIML R60 C3 (on request)	1									
Other / Accessories:	Special model										0

Standard specifications

Type A: Aluminum alloy / 20...500 kg / 2 mV/V / 0,02% of terminal value / IP66 / 3 m cable, 4-wire

Type E: Stainless steel / 500...10000 kg / 2 mV/V / 0,02 % of terminal value / IP66 / 6 m cable, 4-wire

Type L: Alloyed steel / 500...10000 kg / 2 mV/V / 0,02 % of terminal value / IP66 / 6 m cable, 4-wire

Distanzplatten: 500...2000 kg: 4 mm / 2500...5000 kg: 6 mm / 7500...10000 kg: 8 mm

Accessories:

Distance plate: included in scope of delivery

Cable protection plate: on request

Load feet: on request

Fixing screws: on request

Force introduction mounting plate: on request