

# KAM-PR Force Transducer

## Applications

- Load monitoring on lifting jacks
- Vessel weighing
- Fill level measuring



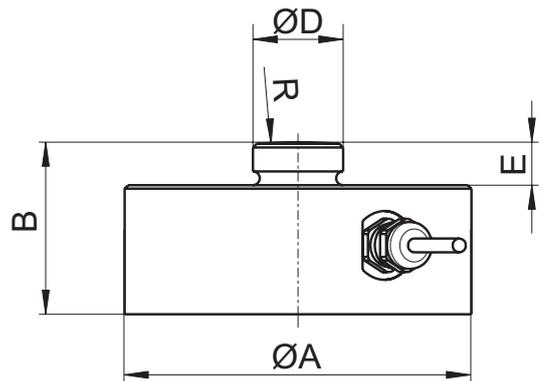
## Features

- 100kN to 350kN
- 0.1% accuracy class
- Small dimension
- Made from stainless steel
- Easy to mount
- Environmental protection IP 65

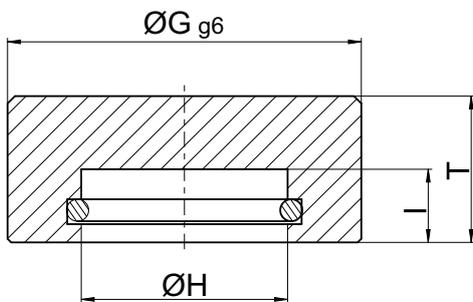
## Option

- ATEX-Certificate

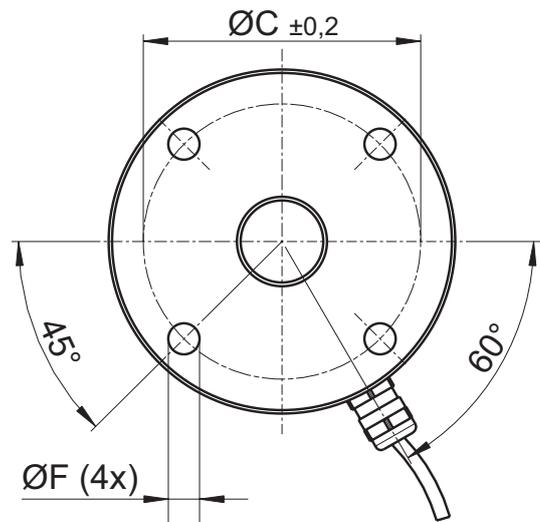
## Dimensions (mm)



## Appliances for Installation and Mounting



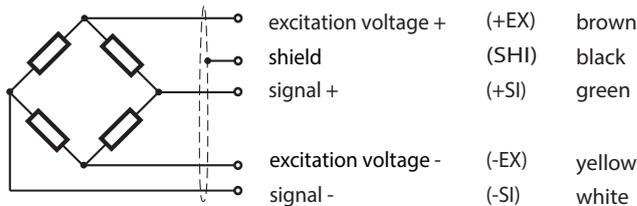
Pressure piece, complete XKM127 and XKM128



Rated Force (kN)	A	B	C	D	E	F	R	G	H	I	T
100/ 200/ 250	100	50	80	26	12.5	9	160	Ø48	Ø28	10	20
350	150	57	130	40	10	13	200	Ø60	Ø41	8.5	21

## Wiring Code

Cable length 3m



## Specifications

Accuracy Class	% F <sub>nom</sub>	0.1
Rated (nominal) force (F <sub>nom</sub> )	kN	100/ 200/ 250/ 350
Maximum operating force (F <sub>G</sub> )	% F <sub>nom</sub>	500
Breaking force (F <sub>B</sub> )	% F <sub>nom</sub>	100
Lateral force limit (F <sub>Q</sub> )	% F <sub>nom</sub>	
Rated characteristic value (C <sub>nom</sub> )	mV/V	2.000 ± 0.005
Relative deviation of zero signal	%	≤ 3
Reference excitation voltage (U <sub>ref</sub> )	VDC	10
Input resistance (R <sub>e</sub> )	Ω	760 ± 60
Output resistance (R <sub>a</sub> )	Ω	706 ± 6
Insulation resistance (R <sub>is</sub> )	Ω	> 5 × 10 <sup>9</sup>
Relative linearity error (d <sub>lin</sub> )	%	≤ 0.1
Relative reversibility error (v)	%	≤ 0.1
Temperature effect on zero signal (TK <sub>0</sub> )	%/10K	0.1
Temperature effect on characteristic value (TK <sub>C</sub> )	%/10K	0.1
Relative creep over 30 minutes (d <sub>cr, F+E</sub> )	%	≤ 0.1
Reference temperature (T <sub>ref</sub> )	°C	+23
Rated temperature range (B <sub>T, nom</sub> )	°C	-20 ... +60
Operating temperature range (B <sub>T, G</sub> )	°C	-20 ... +60
Storage temperature range (B <sub>T, S</sub> )	°C	-20 ... +60
Weight	kg	approx. 2
Environmental protection (EN 60529)		IP 65

All data according to VDI/VDE/DKD 2638

## Order Example

Type Code	Description
KAM-PR/250kN/0.1	Force transducer 250kN with 0.1% accuracy
	Accuracy class
	Rated force
	Model

## Accessoires / Options

	Type Code	Description
Pressure piece, complete	XKM 127	Pressure piece, complete for KAM-PR 100 ... 250 kN
	XKM 128	Pressure piece, complete for KAM-PR 350 kN
Mounting kit	XKM 293	for KAM-PR 100kN ... 250kN (W/ D/ H: 170mm x 100mm x 90mm))
	XKM 294	for KAM-PR 350kN (W/ D/ H: 240mm x 150mm x 120mm))
Assembly set	XKM 295	for KAM-PR 100kN ... 250kN (W/ D/ H: 140mm x 140mm x 101mm))
ATEX	KAM-PR-EX	for 100kN ... 350 kN. Please note ATEX date sheet!