KAN-R
Force Transducer

Applications

- Force measuring ring for compression force
- Monitoring of forces at the end of the rope of lifting equipment
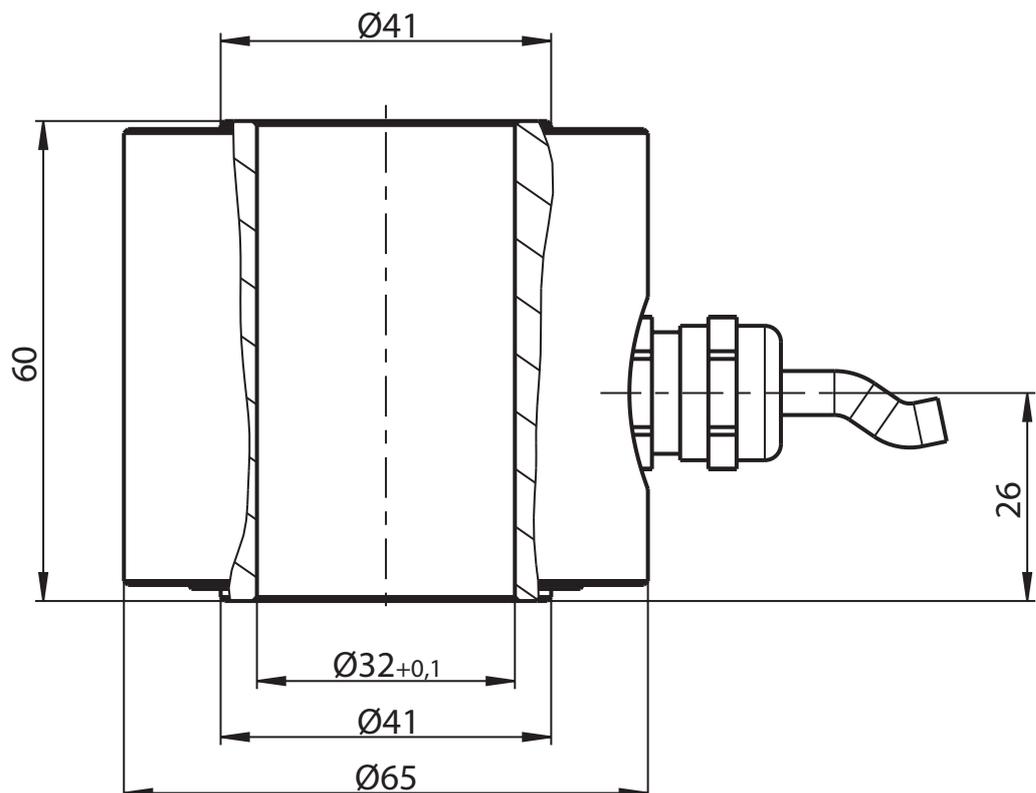- Container Cranes
- Lifts

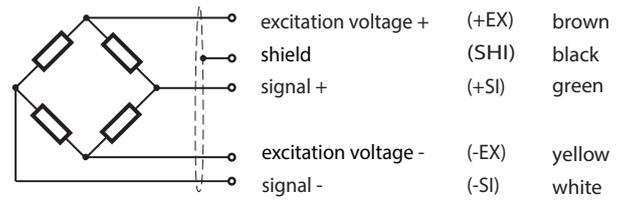## Features

- Rated force 200kN
- Made from stainless steel

Options

- ATEX-Certificate

Dimensions (mm)

Wiring Code
Cable length 3m

excitation voltage +	(+EX)	brown
shield	(SHI)	black
signal +	(+SI)	green
excitation voltage -	(-EX)	yellow
signal -	(-SI)	white

Specifications

Accuracy class	% F_{nom}	0.2
Rated force (F_{nom})	kN	200
Maximum operating force (F_G)	% F_{nom}	150
Breakin force (F_B)	% F_{nom}	>300
Lateral force limit (F_Q)	% F_{nom}	20
Rated characteristic value (C_{nom})	mV/V	2.000 ± 0.01
Relative deviation of zero signal	%	≤ 3
Reference excitation voltage (U_{ref})	VDC	10
Input resistance (R_e)	Ω	720 ± 60
Output resistance (R_a)	Ω	$702 \pm 1,5$
Insulation resistance (R_{is})	Ω	$> 5 \times 10^9$
Relative linearity error (d_{lin})	%	≤ 0.2
Relative reversibility error (v)	%	≤ 1.0
Temperature effect on zero signal (TK_0)	%/10K	≤ 0.2
Temperature effect on characteristic value (TK_C)	%/10K	≤ 0.2
Relative creep over 30 minutes ($d_{cr, F+E}$)	%	≤ 0.2
Reference temperature (T_{ref})	°C	+23
Rated temperature range ($B_{T, nom}$)	°C	-20 ... +70
Operating temperature range ($B_{T, G}$)	°C	-30 ... +70
Storage temperature range ($B_{T, S}$)	°C	-40 ... +70
Environmental protection (EN 60529)		IP 65
Weight	kg	approx. 1

All data according to VDI/VDE/DKD 2638

Order Example

Type Code	Description
KAN-R / 200kN / 0.2	Force transducer 200kN with 0.2% accuracy class Accuracy class Rated force Model

Accessoires/ Options

	Type Code	Description
Connector male	XKC 044.01	Connector male, mounted to sensor body, 5-pin
Displays	AE703	Mobile Display