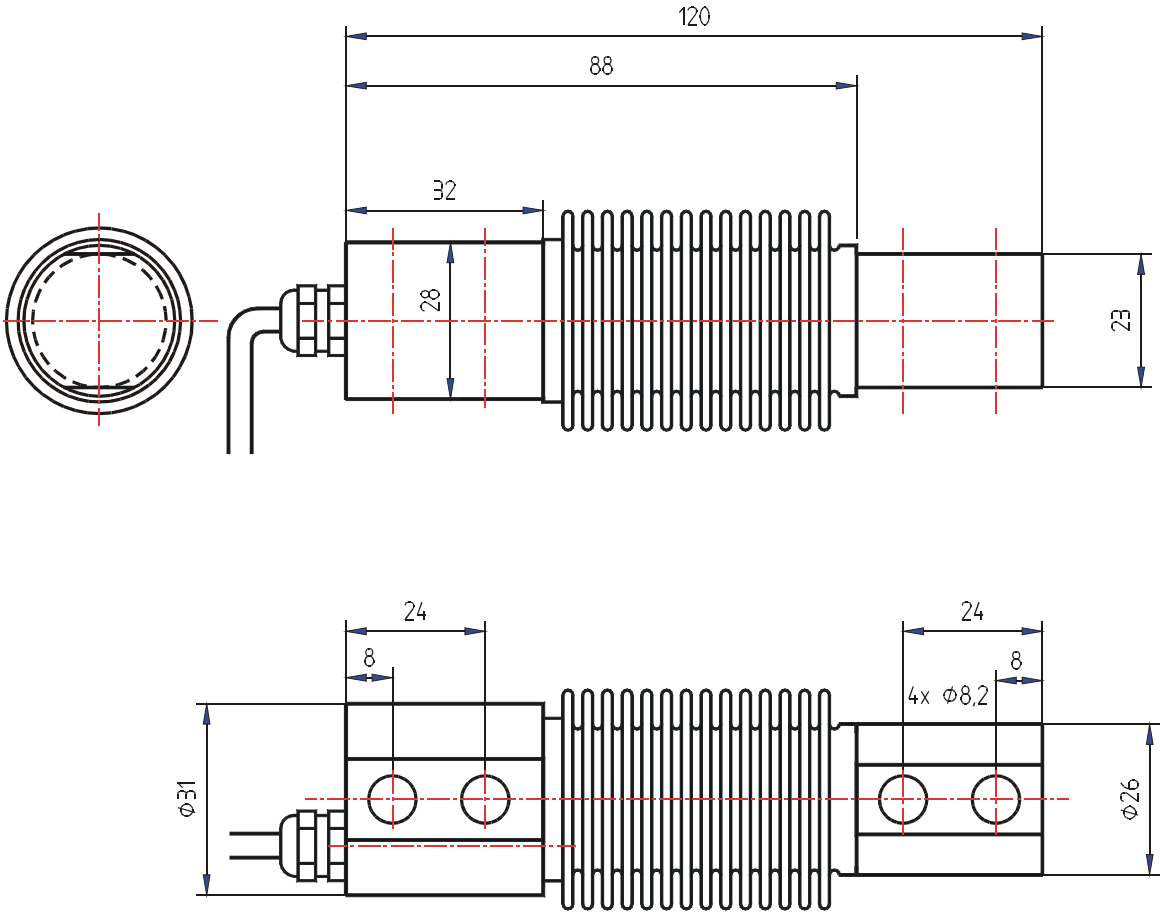
Force Transducer KD120

Nominal force range: ±100N, ±200N, ±500N, ±1000N, ±2000N, ±5000N

The force sensor KD120 is made for a maximum operating temperature of 180°C. Force introduction at the cylindrical ends is either done by clamps or by 4 screws M8.

Dimensions



Technical Data

Accuracy Class	0.1	%
Nominal Force (F_N) Operating Force	100, 200, 500, 1000, 2000, 5000 200% (F_N)	N
Nominal temperature range Operating temperature range Storage temperature range	+10°C ... +120°C -25°C ... +180°C -40°C ... +180°C	°C °C °C
Nominal output (S_N) Zero signal tolerance Max. supply voltage Input resistance Output resistance Insulation resistance Connection, 6 conductors, teflon cable, shielded	1.00 ±5 10 372 ± 5 350 ± 1 > 5 · 10^9 5	mV/V % F_N V Ohm Ohm Ohm m
Linearity error Reversal error Temp. coeff of the zero signal Temp. coeff. of the nominal output Zero point return error (30 min) Creep error (30 min)	<< 0.1 << 0.1 ≤ ± 0.01 ≤ ± 0.01 ≤ 0.1 ≤ 0.1	% S_N % S_N % F_N /K % S_N /K % S_N % S_N

Pin configuration

Colour	Description		
red	+U_S positive bridge supply		
black	-U_S negative bridge supply		
blue	+U_F positive sensor wire		
white	-U_F negative sensor wire		
green	+U_D positive bridge output		
yellow	-U_D negative bridge output		