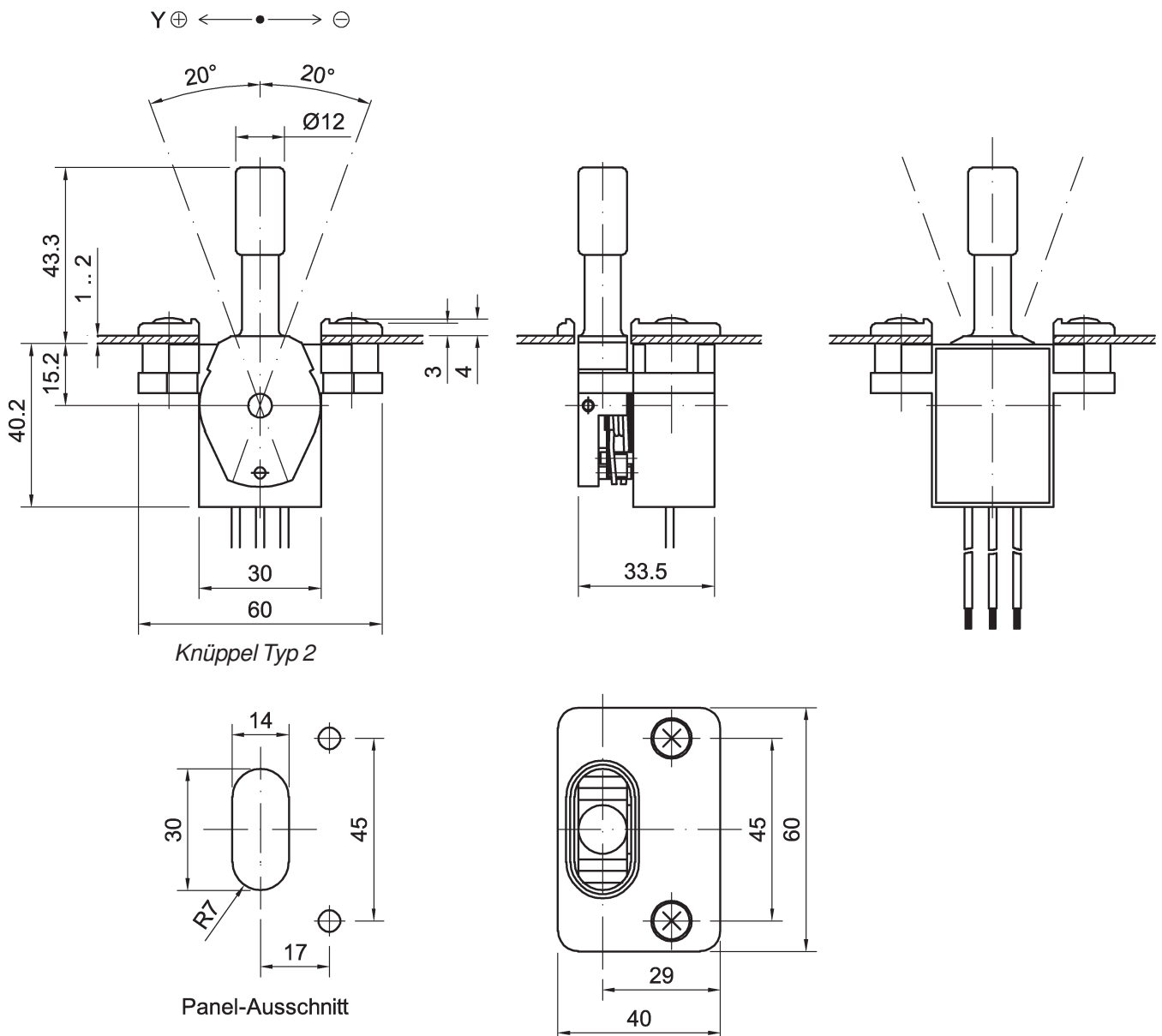


829 - Hand-Joystick

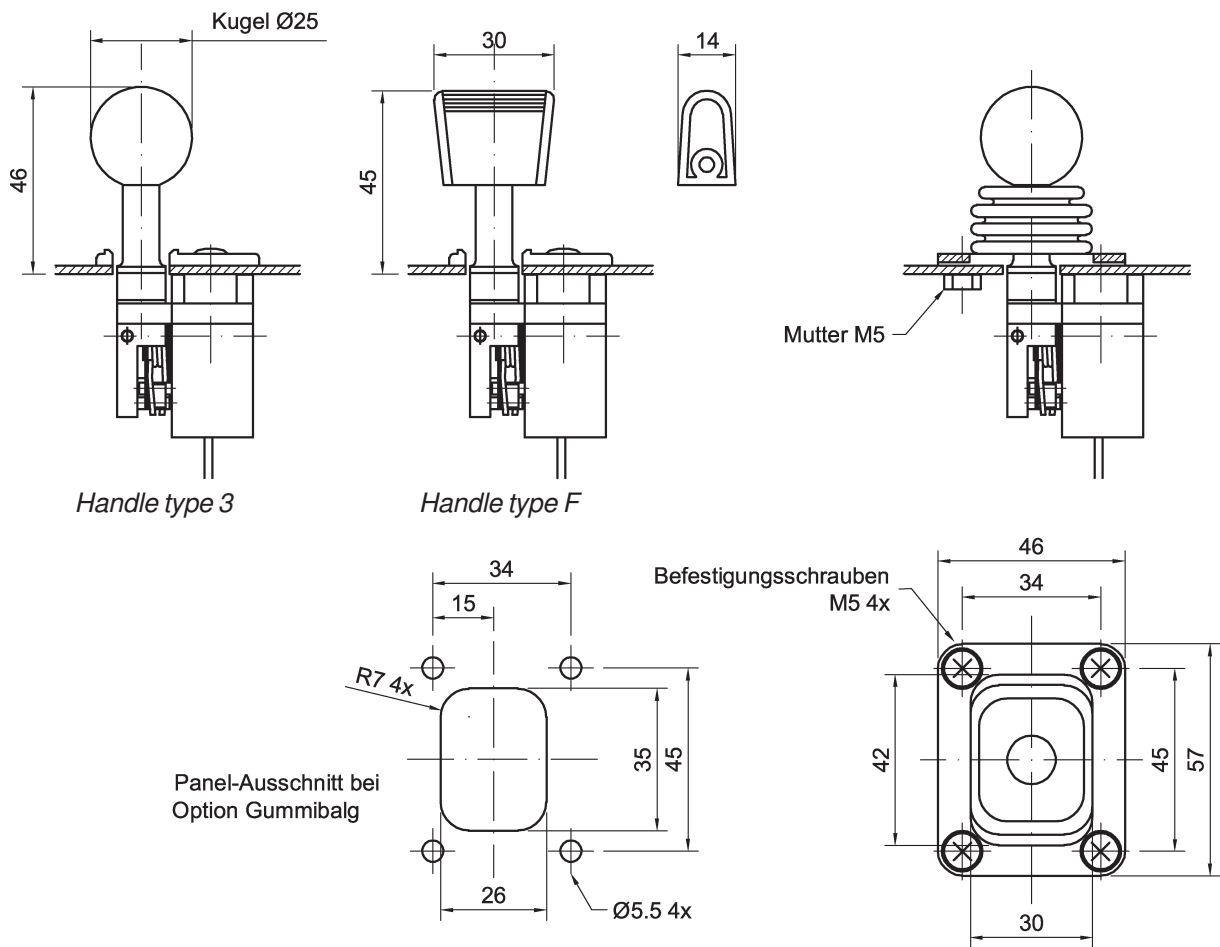
- One axis, spring return device
- Optional with inductiv sensor element or hall sensor
- Various options possible: rubber boot, several handles, several resistance values, additional micro switches, position and direction control
- Applications: printing units, 3-D-machines, lifting devices



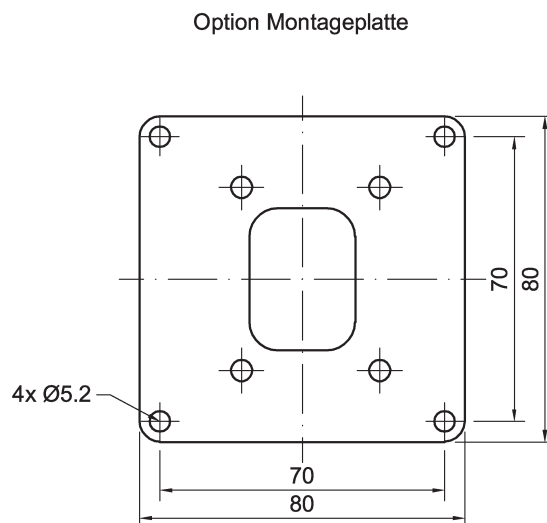
Drawing



Dimensions Handle Options / Rubber Boot



Dimensions Option Mounting Plate



Technical Data

Deflection X axis:	±20° from center pos.
Deflection force at spring return	approx. 1N
Reset accuracy	<=±1°
Operating temperature	-20°C .. +60°C
Storage temperature	[°C] -30°C .. +80°C
Vibration (MIL-STD-202F-204)	10 - 55 Hz at 10 g for one min
Shock (MIL-STD-202F-213)	30 g
Life expectancy	typ. 2 mio. movements
Weight	approx.. 100g
Panel thickness	approx. 2 mm
Protection grade	IP 40

Adaptable Potentiometer

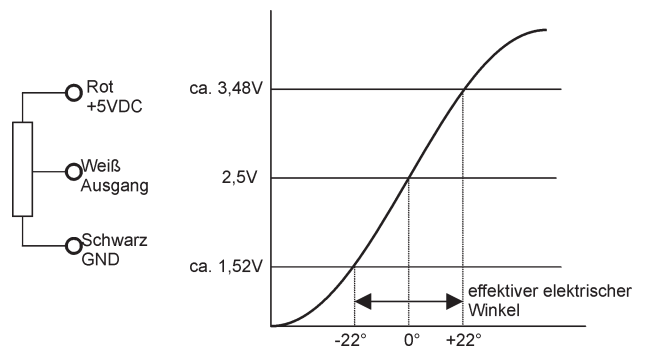
Technology resistance element	conductive plastic
Resistance value	10 kOhm
Resistance tolerance	±20%
Linearity tolerance	±5%FS
Power at 40 °C	0,1 W
Electrical angle	40°
Bearing	sleeve bearing
Life expectancy	typ. 2 mio. movements
Max. wiper current	1 mA
Max. operating voltage	10 V/DC

X- Axis Type K

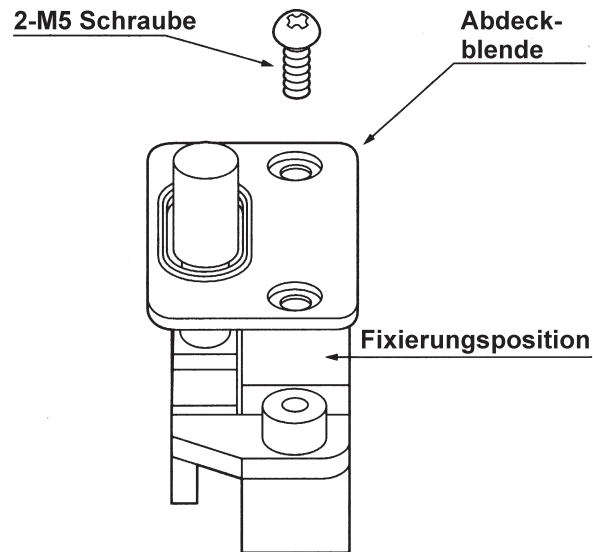
Contactless Potentiometer

Type L

Technology	inductive
Supply voltage	5VDC
Output voltage	1,52V .. 3,48V
Independ. linearity	±0,5%
Load resistance	>10kOhm
Resolution	infinite
Vibration strength	10..50Hz 98m/s ² (10G)
Shock strength	294 m/s ² (30G)
Operating temperature	-20°C .. +65°C
Life expectancy*	typ. 10.000.000



Mountage



Options and Order Descriptions

	Series	Function	Bezel	Reset Device	Handles	Trim	Sensor	Micro switch
Joystick	829							
One axis		1						
Rubber boot			5					
Square screwed, plane			8					
With spring return				1				
Without spring return				2				
Friction clutch for handle				6				
Concave					2			
Ball					3			
Flat					F			
Without external trim						1		
Without trim with mounting plate						4		
Potentiometer type K							K	
Contactless inductive							L	
Without switch								0
Center pos.								1
Other								2

Special version (please ask for more options)

The herewith stated data can not describe the product character or property due to the various applications specialities.