ANALOGUE 1-, 2- AND 3-AXIS INDUSTRIAL JOYSTICK MJ-3K CP



The MJ-3K joystick series offers compact and robust industrial joysticks that can be supplied with conductive-plastic potentiometer sensor elements in analogue versions as well as with galvanically isolated direction contacts. The joysticks are available with 1, 2 or 3 axes for applications such as the safety radio remote control of machinery and systems or for mobile hydraulic applications.

- Long service life
- Robust design

- Conductive plastic technology



- Grip length 55 • Grip length 65



ELECTRICAL SPECIFICATIONS				
Resistance value	5 kΩ*			
Resistance tolerance	± 20%			
Deflection angle, el.	> ± 26°*			
Independent linearity	± 2%			
Zero position switch per axis	< ± 3° open			
Load capacity/axis	0,2 W at 40°C			
Operating voltage (VCC)	Max. 30 VDC			
Contact current	< 10 <i>µ</i> A			
Max. contact current	1 mA in case of malfunction			
Insulation resistance	$1\text{G}\Omega$ at 500 VDC			
Dielectric strength	2000 V			

MECHANICAL SPECIFICATIONS

Service life

5 million cycles

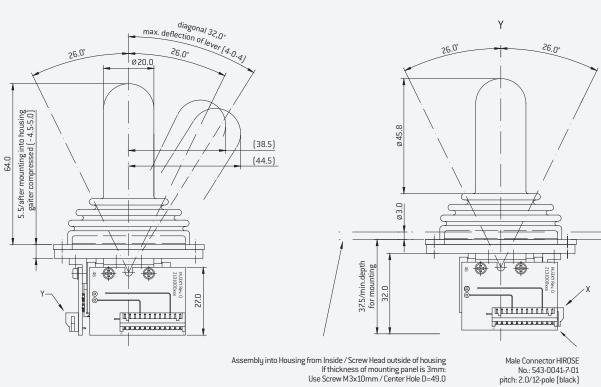
Specifications are subject to change without notice. * Other values on request.

Deflection angle, mech.	± 26°		
Operating force	5 N typically		
Gate shape	Square, soft cross guide		
Wiper zero position	± 1°		
Impact strength	100 N		
User control	Handle with Gaiter		
AMBIENT CONDITIONS			
Storage temperature	-40°C+85°C		
Operating temperature	-25°C+70°C		
Protection class	IP 65		
MATERIALS			
Base	Aluminium		
Bearing	Stainless steel/plastic		
Electrical connection	12-pin Hirose plug, 6-pin Dubox plug		
Mounting	Screws M3		

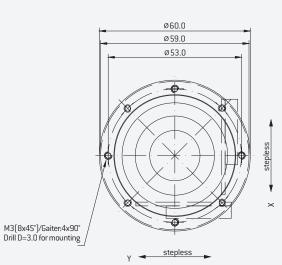
• Steering of boats

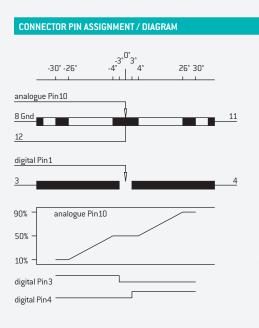
MJ-3K CP (CONDUCTIVE PLASTIC) ANALOGUE					
Type	MJ-3K 55 CP X:0 Y:5K MC 1-0-1 Hirose 12-pin	Type	MJ-3K 65 CP XY:2.5k 1-0-1 Dubox 6-pin		
Item number	E060200038	Item number	E060200466 (2-axis)		
Type	MJ-3K 55 CP XY:5K MC 1-0-1 Hirose 12-pin	Type	MJ-3K 65 CP XY:5K MC 1-0-1 Hirose 12-pin		
Item number	E060200037	Item number	E060200444 (2-axis)		
Type	MJ-3K 55 CP X:0 Y:2.5K 1-0-1 Dubox 6-pin	Type	Hirose 12-pin (ws) LiYv 0.14mm² 500mm		
Item number	E060200487 (1-axis)	Item number	Z301000512		
Type	MJ-3K 55 CP XY:2.5k 1-0-1 Dubox 6-pin	Connection cable	Dubox 6-pin LiYv 0.14mm² 500mm		
Item number	E060200465 (2-axis)	Item number	Z301000500		

DRAWINGS FOR MJ-3K CP 65



Assembly into Housing from Inside / Screw Head outside of housing If thickness of mounting panel is 3mm: Use Screw M3x10mm / Center Hole D=49.0





 $\begin{array}{l} \mbox{Connect, Resistance } 5\,k0hm\ \pm20\%\\ \mbox{Analogue band }10\%-90\%\ Utotal\ \pm3\%\\ \mbox{Medium Voltage }50\%\ Utotal\ \pm2.5\%\\ \mbox{Linearity}=\pm2\%\\ \mbox{Contact Resistance Switch} < 1\ k0hm\\ \mbox{Life CP/PCB} > 5\ \mbox{Mic Cycles} \end{array}$