



<b>General (joystick and handle)</b>	
Weight	0.40 kg (base)
Weight	0.75 kg (base + handle)
Power supply (Vs)	4.5 to 5.5 Vdc
Current (base)	Max 65 mA (@ 5Vdc)
Current (rocker+knob)	Max 65 mA (@ 5Vdc)
CE marking	2004/108/EC

<b>Mechanical</b>	
Angle of movement	
Base	20°
Rocker	20°
Knob	20°
Expected life	5 million cycles

<b>Environmental</b>	
Temperature	
Operating,	-40 to +70° C
Storage,	-40 to +85° C
Electronics sealing	IP67 <sup>1</sup>

<b>Analog outputs</b>	
Analog output range	10%-90% Vs
Resolution	<2 mV)

<b>Connection</b>	
LC6-X05-U0	Molex MicroFit 3.0
LC6-X05-H1-R1K0	Molex MicroFit 3.0
LC6-X05-H1-R1K1	Molex MicroFit 3.0

1) Depending on connector

**Application**

The IQAN-LC6-X05 is a mini-coordinate joystick that incorporates ergonomic design with ruggedness, functionality, light weight and high flexibility for mobile market applications. The unit is designed to withstand aggressive conditions in different types of mobile equipment. The LC6 has a compact ergonomic design and small dimensions that make it ideal for armrest and panel mounting. The IQAN-LC6-X05 is designed for outdoor use. The housing and handle have potted electronics and are rated up to IP67.

The ergonomic handle has a unique, patent pending, rotary knob function that adds a fourth proportional function integrated in the handle. The design gives the user a benefit to control all joystick proportional functions without changing their grip on the handle, and makes the LC6 ideal for repetitive, precise motion control during extended periods in mobile applications. The 4th axis default fitted ring has a small diameter, however, if needed, the operator can attach a larger sized ring to provide a different grip feeling.

All proportional output signals in joystick, rocker and knob are of contactless Hall effect type with dual sensors to provide redundancy for safety and reliability. A magnet shielding technology is used to protect the joystick from external magnetic fields.

IQAN-LC6-X05 joystick redundant signals allow error checking to make it easy for the application designer to meet high safety requirements by using IQAN software. The primary signal for each axis is 10%-90% of supply voltage. The corresponding secondary signal is 90%-10% of supply voltage.

**Description Ordering PN**

IQAN-LC6-X05-U0	20077757
▶ IQAN-LC6-X05-H1R1K0	20077758
IQAN-LC5-X05-H1R1K1	20077759

