

Electronic Remote Controls

IQAN levers

Catalogue HY17-8315/UK May, 2003

Application

IQAN-LM

IQAN-LM is especially suitable for continuous duty machine operations such as in forestry and construction work. The combination of a mini lever and armrest provide substantial ergonomic benefits.

IQAN-LL

IQAN-LL is designed for rough handling. The ergonomic design gives good support to the arms and wrists and assures a comfortable grip from several angles. The design allows operators to quickly become familiar with the lever.

Design and function

Both levers are designed for in-cab use, one type for connection to both 12 VDC and 24 VDC systems. All inputs and outputs are protected against short circuit to ground and to main power supply.

The IQAN levers are connected to other modules through a CAN bus which makes data exchange more efficient, simplifies installation and increases noise immunity.

A number of different handle types are available. A LED indicator shows supply voltage and internal operation.

The lever units are lightweight with small installation dimensions and have low, well-adapted actuating forces.

All proportional inputs are of contactless inductive type with neutral position sensors to provide high safety and reliability.









Technical data

Order code

IQAN-LM

Example IQAN-LM-3D

Unit type code
Number of axis
Handle type

Unit type code: product description

LM - lever mini

Number of axis: 2 - X, Y

3 - X, Y, Z

Handle type: A - diameter 15 mm

D - with rocker for Z axis

IQAN-LL

Example IQAN-LL-2N2T

Unit type code Number of axis Handle type —

Unit type code: product description

LL - lever large

Number of axis: 2 - X, Y

3 - X, Y, Z

Handle type: E2 - straight handle, 2 buttons

G - with rocker for Z axis

J - without handle

NO - banana-shaped handle,

no buttons

N2 - banana-shaped handle,

2 buttons

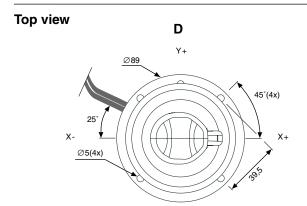
N2T - banana-shaped handle,

2 buttons, trigger switch

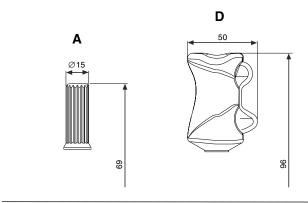
N4 - banana-shaped handle,

4 buttons

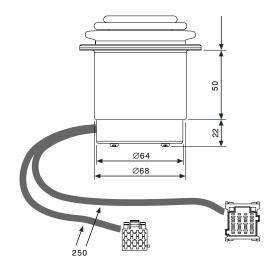
IQAN-LM



Handle types



Base unit



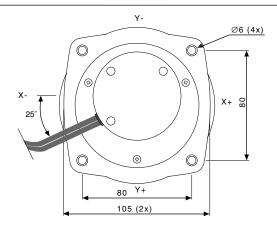


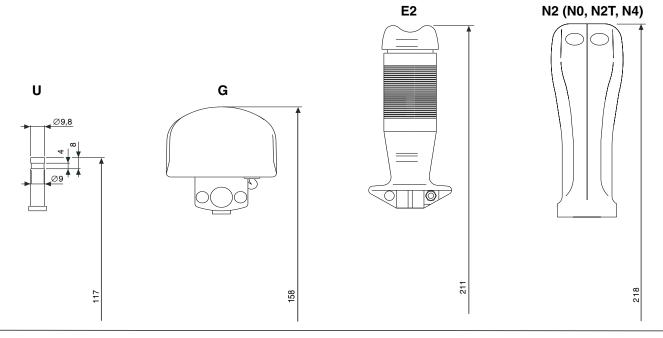


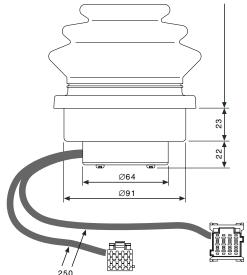
Technical data

IQAN-LL

Bottom view











Technical data

Electronic Remote Controls

IQAN levers

General

Weight LM 0,4 Kg, LL 0,9 Kg

Rated power supply Min/max power Operating temperature Protection

12 - 24 VDC 9 / 32 VDC -30 to +70 °C in-cab use

IP65 (type A) IP44 (type D)

Parker ICP

Current consumption 57 mA (28 VDC), (idle) 46 mA (14 VDC) Data interface

(IQAN CAN Protocol)

Axis sensors

Number max 3 pcs, inductive

Resolution

Neutral position detection

Signal IR-sensor, on/off

Digital inputs

Number 10 pcs, 4 internal,

6 external

(may differ according

to handle) 0 - 5 VDC

Signal range 0 - 32 VDC

"0" = 0,0 - 1,0 VDC,

"1" = 2,0 - 32,0 VDC

Analog inputs

Active range

Number 2 pcs

0 - 5 VDC Signal range

0 - 32 VDC

Active range 0.5 - 4.5 VDC

Resolution 5 mV

Digital outputs

Number

(on behalf of 1 digital input)

200 mA Signal

Environmental Protection

EMI

ISO 11452-2 (immunity vs EM field)

ISO 14982 (radiated emission)

ISO 11452-4 (immunity vs injected RF) ISO 7637-2 (immunity vs supply transients)

ESD

EN 61000-4-2

Mechanical environment

IEC 68-2-64 Fh (random) IEC 68-2-27 Es (shock) IEC 68-2-29 Eb (bump)

Climate environment

IEC 68-2-18 Rb3 (water)

IEC 68-2-30 Db (var1, damp, cyclic)

IEC 68-2-3 Ca (damp, heat steady state)

IEC 68-2-2 Bb (heat) IEC 68-2-1 Ab (cold)

IEC 68-2-14 Nb (change of temperature)

For latest information visit our website www.IQAN.com

Information in this data sheet is subject to change without notice.



Parker Hannifin

Mobile Controls Division SE-435 33 Mölnlycke

Sweden

Tel +46 31 750 44 00 Fax +46 31 750 44 21 www.parker.com

Parker Hannifin

Mobile Controls Division 203 Pine Street Forest City, NC 28043 USA

Tel +1 828 245 3233 Fax +1 828 248 9733 Catalogue HY17-8315/UK POD 05/2003 PC

