C11 Series

FEATURES

- Z-type operation, Heavy duty friction operation
- Redundant security protection, mechanical lock and electronic lock available
- Large travel angle design
- Non-Contacting hall effect technology, high reliability, long life time
- IP67 (electronic part)

APPLICATIONS

- Agricultural machinery
- Control panel
- Armrest box controller

SPECIFICATIONS

Mechanical data	
Travel angle	-20°~+35° (Z-type operation), ±35°(Single axis operation)
Operating force[1]	55±15N
Mechanical life	3 million cycles
Product weight	1050g
Operation Temperature	
Supply voltage(Vs)	5.0±0.5Vdc or 9~32Vdc
Power current consumption	<10mA (per channel)
Center voltage	2.5V±3%Vs
Output linearity voltage tolerance	±3%
Maximum overload voltage	24Vdc
Maximum Reverse voltage	-12Vdc
Load resistance	10KΩ
Insulation resistance	>1000MΩ
Microswitch rated current	2A@30Vdc
Environmental data	
Operating temperature	-30°C~+70°C
Storage temperature	-40°C~+85°C
Protection class	IP ratings may vary from model to model, for more information, please consult our sales staff

[1] *The measuring point is 100mm from the pivot center*

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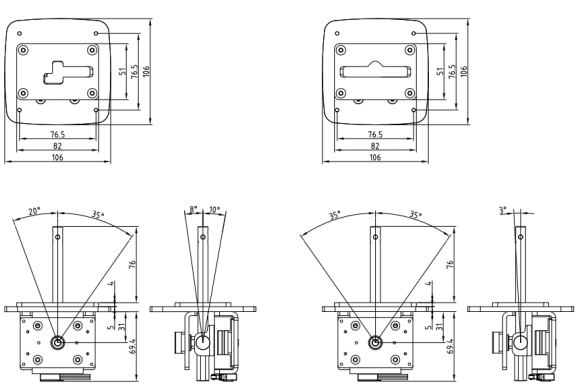
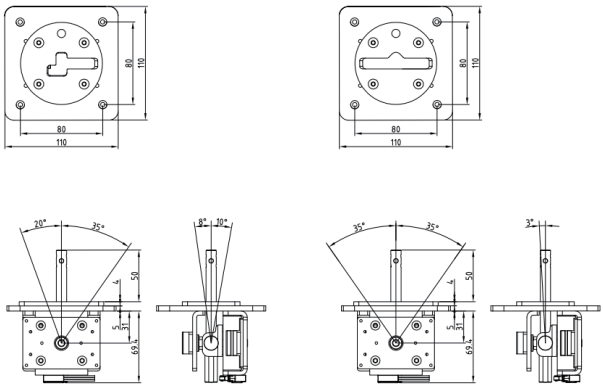
OUTLINE DIMENSIONS (UNIT:mm)

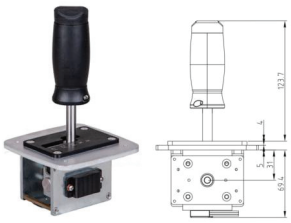


Without dust-proof rubber

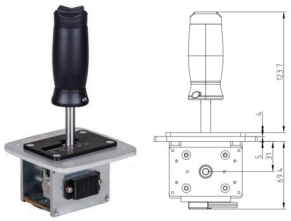


With dust-proof rubber

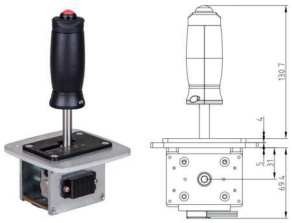
HA handle



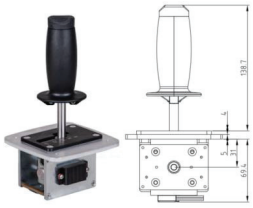
HB handle,
without top switch



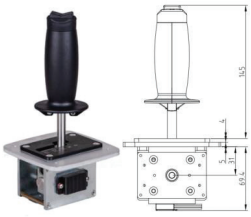
HBR handle,
with top rocker switch



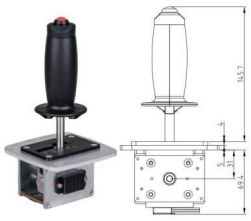
HBS handle,
with top switch



HD handle,
without top switch



HDR handle,
with top rocker switch

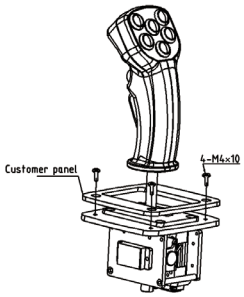


HDS handle,
with top switch

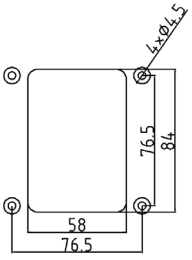
K2 handle

K4 handle

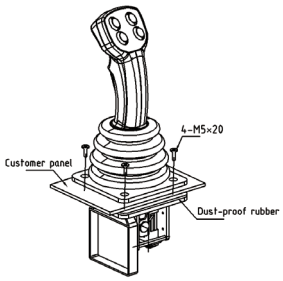
MECHANICAL INSTALLATIONS



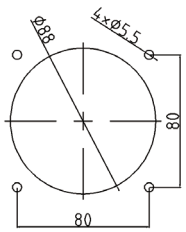
Mounting diagram



Panel cut-out dimensions



Mounting diagram



Panel cut-out dimensions

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ORDER GUIDE

C11	Multi-axis joystick

Code	Operating mode
F1	Single axis operation, friction positioning, the middle slot can feel the position of the handle, square shape stop plate, without dust cover
F2	Single axis operation, friction positioning, the middle slot can feel the position of the handle, circle shape stop plate, with dust cover
Z1	Z-type operation, Y axis friction positioning, X axis spring return, center detent, square shape stop plate, without dust cover
Z2	Z-shaped operation, Y-axis friction positioning, X-axis spring reset, neutral lock, round limit plate, with dust cover (Compatible only with the upper end of K2)

Code	Output signal
H11	Supply voltage 5Vdc, 10%~50%~90%Vs output
H13	Supply voltage 5Vdc, 20%~50%~80%Vs output
H14	Supply voltage 5Vdc, 25%~50%~75%Vs output
H21	Supply voltage 5Vdc, 10%~50%~90%Vs and 90%~50%~10%Vs redundant output
H23	Supply voltage 5Vdc, 20%~50%~80%Vs and 80%~50%~20%Vs redundant output
H24	Supply voltage 5Vdc, 25%~50%~75%Vs and 75%~50%~25%Vs redundant output
W11	Supply voltage 9~32V, 0.5~2.5~4.5V ratiometric output
W13	Supply voltage 9~32V, 1~2.5~4V ratiometric output
W14	Supply voltage 9~32V, 1.25~2.5~3.75V ratiometric output
W21	Supply voltage 9~32V, 0.5~2.5~4.5V and 4.5~2.5~0.5V redundant ratiometric output
J33	CAN Bus output, protocol J1939, node address 33
J34	CAN Bus output, protocol J1939, node address 34
J35	CAN Bus output, protocol J1939, node address 35
J36	CAN Bus output, protocol J1939, node address 36
CA	CAN Bus output, protocol CANopen

Code	Micro switch
N	No microswitch
S1	Normally closed push button switch in the middle position

Code	Handle options
N	No handle
HA	HA handle
HB	HB handle, without top switch
HBS	HBS handle, with top switch
HBR	HBR handle, with top rocker switch
HD	HD handle, without top switch
HDS	HDS handle, with top switch
HDR	HDR handle, with top rocker switch
K6DR	K6 handle, with deadman switch and top rocker switch
K2##	K2 handle, refer to K2 manual for detailed configurations
K4##	K4 handle, refer to K4 manual for detailed configurations

Code	Wiring
L	Cable wiring (default)
C	Connector (custom design)

C11	F1	H11	S1	HB	L	Complete Type Specification

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