OEM Finland Oy | Puh: 0207 499 499 | info@oem.fi | www.oem.fi
PL 9, 20101 TURKU

MO391 & 387 JOYSTICK

MO391+387
Midi Joystick

- Valittavissa useilla eri painikkeilla ja ohjaimilla
- Kaksiakselinen täysi liikerata
- Analogiset ja CAN versiot
- IP67

TUOTEKUVAUS

Midi joystick perustuu kontaktittomaan Hall mittausperiaatteeseen ja tarjoaa täysin redundanttisen rakenteen. Joystickin kaksiakselinen liikerata on 20 astetta joka suuntaan ja se palautuu automaattisesti keskiasentoon.
Joystick kahvassa on monikäyttöinen ja modulaarinen rakenne. Kahvaosaan voidaan valita useita eri painikkeita sekä rullaohjain ja microjoystick vaihtoehtoja.

Lähdöistä on valittavissa CAN versiot (CAN J1939- tai CANopen) tai analogiset versiot. Ulostulosignaali voidaan ohjelmoida asiakkaan tarpeiden mukaan. Käyttöjännite voi olla 5 V tai 8–32 V. Joystickin kotelointi täyttää IP67-suojausluokan vaatimukset. Liitinvaihtoehtoina ovat 8-napainen Deutsch ja 18-napainen Molex liitin.

Analog

MO 391&387 -	**H1X** - Hardware	**X** - Axis of Actuation	**PXXX** - Program	**X** - Rear	**XX** Front Panel
	H10 - S:5V ; O:0-5V Analog Voltage or PWM Output	**0** - 2 Axis Full	**P001** - Dual Cross	**0** - Without Button - Presence Det. Switch	**A0** - No push button
	H11 - S:5V ; O:0-32V PWM Low Side Output		*	**1** - With Button - Without Presence Det. Switch	**A1** - 1 Push Button
	H12 - S:8-32V ; O:0-5V Analog Voltage or PWM Output			**2** - Without Button- With Presence Det. Switch	**A2** - 2 Push Buttons
	H13 - S:8-32V ; O:0-32V PWM Low Side Output			**3** - With Button - Presence Det. Switch	**A3** - 3 Push Buttons
	H14 - S:12-32V ; O:0-10V Analog Voltage Output				**A4** - 4 Push Buttons
	H15 - S:12-32V ; O:4-20mA Analog Current Output				**A5** - 5 Push Buttons

MO 391&387 -	**H1X** - Hardware	**X** - Axis of Actuation	**PXXX** - Program	**X** - Rear	**XX** Front Panel
	H16 - S:8-18V ; O:8-18V PWM or ON/OFF High Side Output (1.5A/Ch)				**B1** - 1 Thumbwheel Left Vertical with No Push Button
	H17 - S:8-32V ; O:8-32V PWM or ON/OFF High Side Output (1.5A/Ch)				**B2** - 1 Thumbwheel Left Vertical with 1 Push Button
	H18 - S:8-18V ; O:0-5V Analog Voltage Output with Neutral Position (1.5A/Ch) and Direction High Side Outputs (1.5A/Ch)				**B3** - 1 Thumbwheel Left Vertical with 2 Push Buttons
	H19 - S:8-32V ; O:0-5V Analog Voltage Output with Neutral Position (1.5A/Ch) and Direction High Side Outputs (1.5A/Ch)				**B4** - 1 Rocker Left Vertical with No Push Button
	*				**B5** - 1 Rocker Left Vertical with 1 Push Button
					B6 - 1 Rocker Left Verticall with 2 Push Buttons
					B7 - 1 Toggle Left Vertical with No Push Button
					B8 - 1 Toggle Left Vertical with 1 Push Button
					B9 - 1 Toggle Left Vertical with 2 Push Buttons
					C1 - 1 Thumbwheel Right Vertical with No Push Button
					C2 - 1 Thumbwheel Right Vertical with 1 Push Button
					C3 - 1 Thumbwheel Right Vertical with 2 Push Buttons
					C4 - 1 Rocker Right Vertical with No Push Button
					C5 - 1 Rocker Right Vertical with 1 Push Button
					C6 - 1 Rocker Right Vertical with 2 Push Buttons
					C7 - 1 Toggle Right Vertical with No Push Button
					C8 - 1 Toggle Right Vertical with 1 Push Button
					C9 - 1 Toggle Right Vertical with 2 Push Buttons
					D1 - 1 Thumbwheel Horizontal with No Push Button

MO 391&387 -	**H1X** - Hardware	**X** - Axis of Actuation	**PXXX** - Program	**X** - Rear	**XX** Front Panel
					D2 - 1 Thumbwheel Horizontal with 1 Push Button
					D3 - 1 Thumbwheel Horizontal with 2 Push Buttons
					D4 - 1 Rocker Horizontal with No Push Button
					D5 - 1 Rocker Horizontal with 1 Push Button
					D6 - 1 Rocker Horizontal with 2 Push Buttons
					D7 - 1 Toggle Horizontal with No Push Button
					D8 - 1 Toggle Horizontal with 1 Push Button
					D9 - 1 Toggle Horizontal with 2 Push Buttons
					E1 - Thumbwheel / Thumbwheel
					E2 - Thumbwheel / Rocker
					E3 - Thumbwheel / Toggle
					E4 - Rocker / Thumbwheel
					E5 - Rocker / Rocker
					E6 - Rocker / Toggle
					E7 - Toggle / Thumbwheel
					E8 - Toggle / Rocker
					E9 - Toggle / Toggle
					F1 - 1 Micro Joystick
					G1 - 1 Micro Joystick Left with 1 Push Button
					G2 - 1 Micro Joystick Left with 2 Push Buttons
					H1 - 1 Micro Joystick Right with 1 Push Button
					H2 - 1 Micro Joystick Right with 2 Push Buttons

CAN

MO 391&387 - H20 -	**SXX** - CAN Protocol	**X** - Node ID *J1939* - *CANopen*	**X** - Axis of Actuation	**PXXX** - Program	**X** - Rear	**XX** Front Panel
	S10 - SAE J1939	**A** - 128(80h) - 4(04h)	**0** - 2 Axis Full	**P001** - Dual Cross	**0** - Without Button and Present Det. Switch	**A0** - No push button

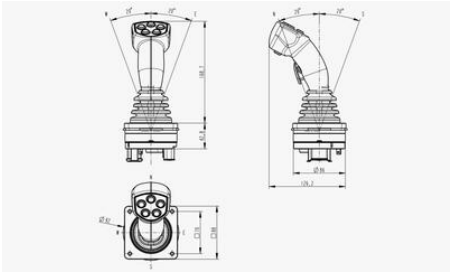
MO 391&387 - H20 -	**SXX** - CAN Protocol	**X** - Node ID *J1939* - *CANopen*	**X** - Axis of Actuation	**PXXX** - Program	**X** - Rear	**XX** Front Panel
	S11 - CANopen	**B** - 129(81h) - 5(05h)		*	**1** - With Button - Without Present Det. Switch	**A1** - 1 push button
	*	**C** - 130(82h) - 6(06h)			**2** - Without Button- With Present Det. Switch	**A2** - 2 push button
					3 - With Button and Present Det. Switch	**A3** - 3 push button
						A4 - 4 push button
						A5 - 5 push button
						B1 - 1 Thumbwheel left vertical with no push button
						B2 - 1 Thumbwheel left vertical with 1 push button
						B3 - 1 Thumbwheel left vertical with 2 push button
						B4 - 1 Rocker left vertical with no push button
						B5 - 1 Rocker left vertical with 1 push button
						B6 - 1 Rocker left vertical with 2 push button
						B7 - 1 Toggle left vertical with no push button
						B8 - 1 Toggle left vertical with 1 push button
						B9 - 1 Toggle left vertical with 2 push button
						C1 - 1 Thumbwheel right vertical with no push button
						C2 - 1 Thumbwheel right vertical with 1 push button
						C3 - 1 Thumbwheel right vertical with 2 push button
						C4 - 1 Rocker right vertical with no push button
						C5 - 1 Rocker right vertical with 1 push button
						C6 - 1 Rocker right vertical with 2 push button
						C7 - 1 Toggle right vertical with no push button
						C8 - 1 Toggle right vertical with 1 push button
						C9 - 1 Toggle right vertical with 2 push button

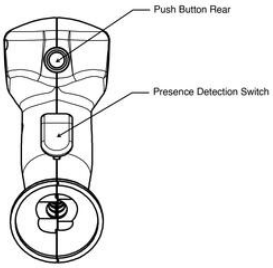
MO 391&387 - H20 -	**SXX** - CAN Protocol	**X** - Node ID *J1939* - *CANopen*	**X** - Axis of Actuation	**PXXX** - Program	**X** - Rear	**XX** Front Panel
						D1 - 1 Thumbwheel horizontal with no push button
						D2 - 1 Thumbwheel horizontal with 1 push button
						D3 - 1 Thumbwheel horizontal with 2 push button
						D4 - 1 Rocker horizontal with no push button
						D5 - 1 Rocker horizontal with 1 push button
						D6 - 1 Rocker horizontal with 2 push button
						D7 - 1 Toggle horizontal with no push button
						D8 - 1 Toggle horizontal with 1 push button
						D9 - 1 Toggle horizontal with 2 push button
						E1 - Thumbwheel / Thumbwheel
						E2 - Thumbwheel / Rocker
						E3 - Thumbwheel / Toggle
						E4 - Rocker / Thumbwheel
						E5 - Rocker / Rocker
						E6 - Rocker / Toggle
						E7 - Toggle / Thumbwheel
						E8 - Toggle / Rocker
						E9 - Toggle / Toggle
						F1 - 1 Micro Joystick
						G1 - 1 Micro Joystick left with 1 push button
						G2 - 1 Micro Joystick left with 2 push button
						H1 - 1 Micro Joystick right with 1 push button
						H2 - 1 Micro Joystick right with 2 push button

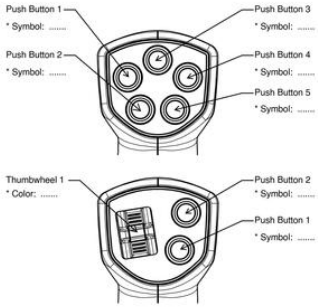
;

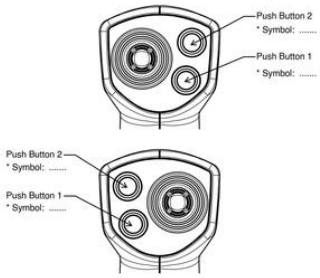
TEKNISET TIEDOT

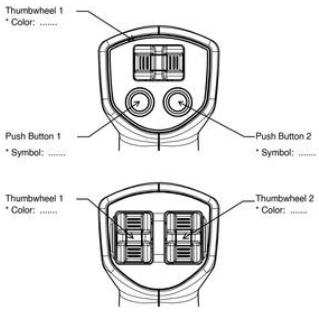
IP-luokka	IP67
Käyttölämpötila-alue	-40 - 85 °C
Liikerata	20°
Lähdöt	CAN / Analog / PWM
Pituus	212 mm
Syöttöjännite	5V tai 8-32V

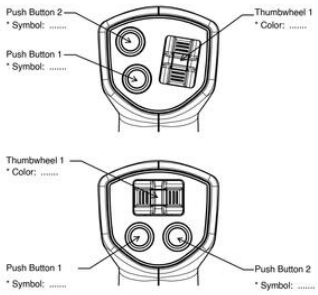


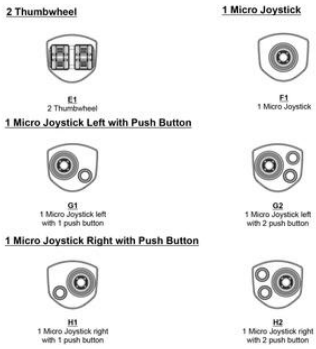


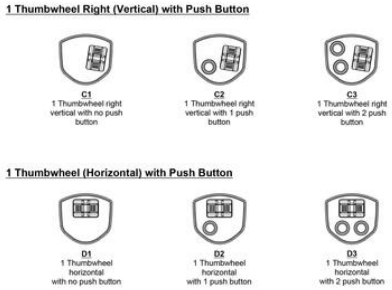


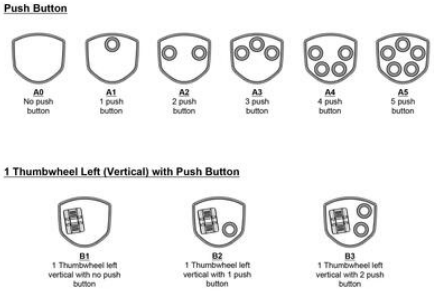


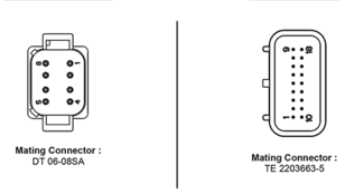




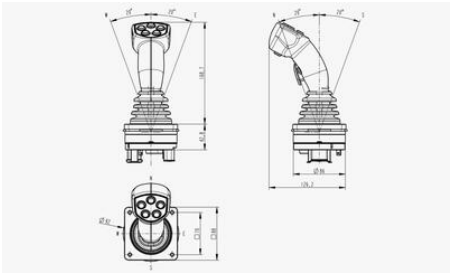


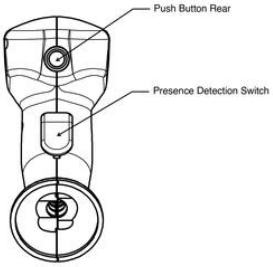


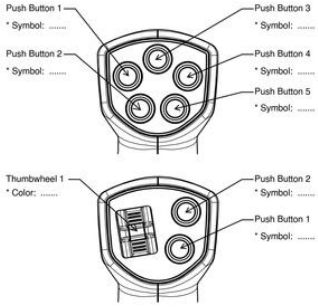


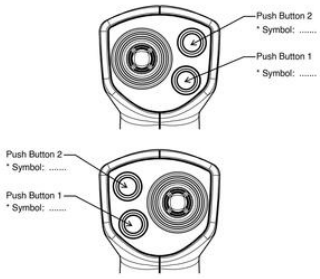


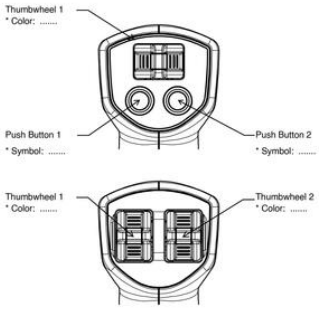
Thumbwheel
Spring Return
Thumbwheel
Toggle
Thumbwheel
Rocker

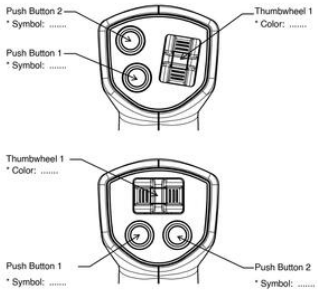


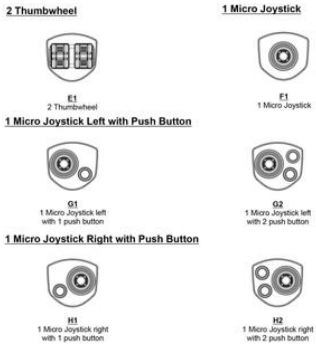

Push Button Rear
Presence Detection Switch


Push Button 1
* Symbol: .....
Push Button 2
* Symbol: .....
Push Button 3
* Symbol: .....
Push Button 4
* Symbol: .....
Push Button 5
* Symbol: .....
Thumbwheel 1
* Color: .....
Push Button 2
* Symbol: .....
Push Button 1
* Symbol: .....

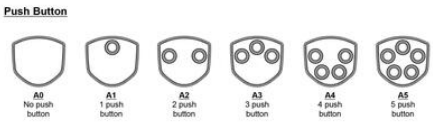

Push Button 2
* Symbol: .....
Push Button 1
* Symbol: .....
Push Button 2
* Symbol: .....
Push Button 1
* Symbol: .....


Thumbwheel 1
* Color: .....
Push Button 1
* Symbol: .....
Push Button 2
* Symbol: .....
Thumbwheel 1
* Color: .....
Thumbwheel 2
* Color: .....


Push Button 2
* Symbol: .....
Push Button 1
* Symbol: .....
Thumbwheel 1
* Color: .....
Thumbwheel 1
* Color: .....
Push Button 1
* Symbol: .....
Push Button 2
* Symbol: .....


2 Thumbwheel
E1
2 Thumbwheel
1 Micro Joystick
E1
1 Micro Joystick
1 Micro Joystick Left with Push Button
G1
1 Micro Joystick left
with 1 push button
G2
1 Micro Joystick left
with 2 push button
1 Micro Joystick Right with Push Button
H1
1 Micro Joystick right
with 1 push button
H2
1 Micro Joystick right
with 2 push button

1 Thumbwheel Right (Vertical) with Push Button
C1
1 Thumbwheel right
vertical with no push
button
C2
1 Thumbwheel right
vertical with 1 push
button
C3
1 Thumbwheel right
vertical with 2 push
button


Push Button
A0
No push
button
A1
1 push
button
A2
2 push
button
A3
3 push
button
A4
4 push
button
A5
5 push
button

DEUTSCH CONNECTOR
Mating Connector :
DT 06-08SA
TYCO CONNECTOR
Mating Connector :
TE 2203663-5

1 Thumbwheel (Horizontal) with Push Button
D1
1 Thumbwheel
horizontal
with no push button
D2
1 Thumbwheel
horizontal
with 1 push button
D3
1 Thumbwheel
horizontal
with 2 push button

1 Thumbwheel Left (Vertical) with Push Button
B1
1 Thumbwheel left
vertical with no push
button
B2
1 Thumbwheel left
vertical with 1 push
button
B3
1 Thumbwheel left
vertical with 2 push
button