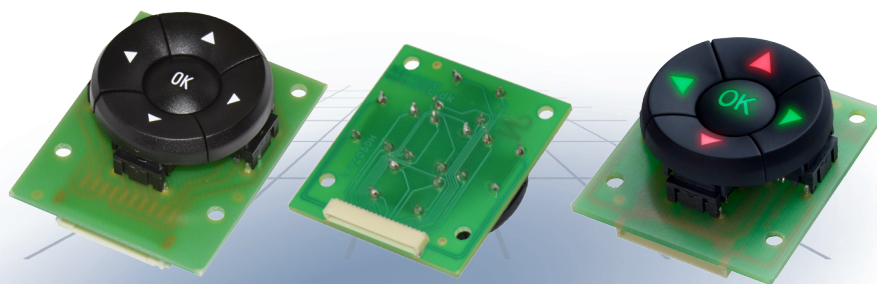


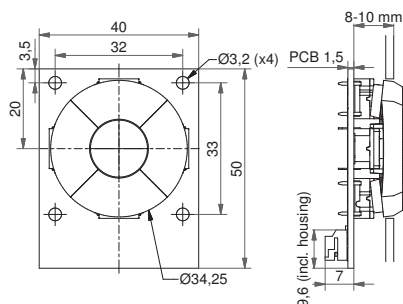
Technical Data:

- module should be attached to the front plate with bolts (bolts not supplied by MEC)
- 50mA/24VDC
- single pole/momentary
- 10.000.000 operations lifetime
- switches sealed to IP67
- temperature range:
switch body: -40/+160°C
LED: -30/+85°C
- actuation force: 2.0, 3.5, 6.5 N

Navimec Module standard and illuminated

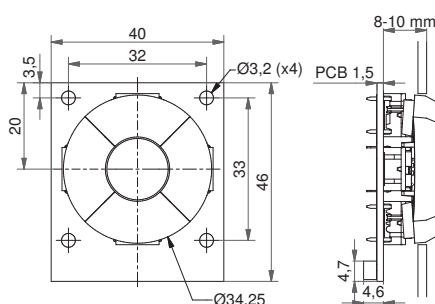


Dimensions Standard Navimec module



*When the 1ZB is activated the diameter changes from 34,25mm to 35,0mm

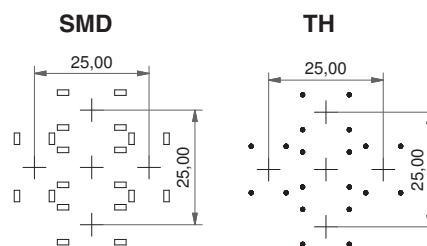
Dimensions illuminated Navimec module



Recommended panel cut-out:

Ø = 35,0 - 35,5 Depending on application

PCB layout for Navimec solution



HOW TO ORDER

Navimec Module ordering options:

- Navimec Module excl. keycaps
- Navimec Module incl. keycaps
- Navimec Module incl. keycaps with legends
- illuminated Navimec Module excl. keycaps
- illuminated Navimec Module incl. keycaps with legends

Part no. 9810120 - PCB and connector for Navimec Module

Part no. 9810125 - PCB and connector for illuminated Navimec Module

Part no. for switches and caps:

Navimex Module has many customisation options regarding actuation force, cap and LED colours and legends. Because of that ordering is based on part numbers of separate parts instead of one specific part number. MEC has the switches mounted on the module before delivery, which is included in the module price.

See the other side for information on switch and cap options as well as the examples below.

For example:

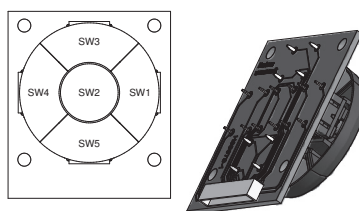
9810120 + 4x 5GTH920 + 1x 5GTH920 (without caps)

9810120 + 4x 5GTH965+1ZB42 + 1x 5GTH965+1ZCS42 (with caps)

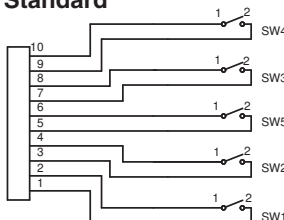
9810125 + 4x 5GTH93501+1ZB16LM136 + 1x 5GTH93501

+1ZCS16LM118 (painted caps with laser engraved legends)

Circuit diagram Navimec module



Standard

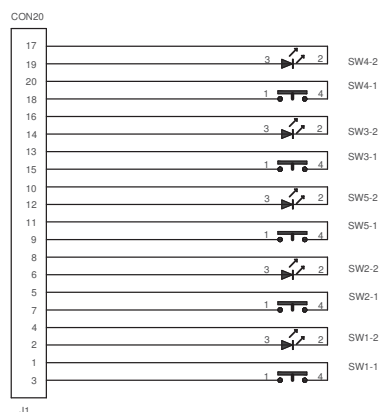


The connector on the standard Navimec module is JST SMT S108-PH-SM3-TB or similar. We recommend using:

Cable socket: JST PHR-10 or similar

Contact: JST SPH-002T-P0.5S or similar

illuminated



The connector on the illuminated Navimec module is CI1120M1H or similar.

We recommend using:

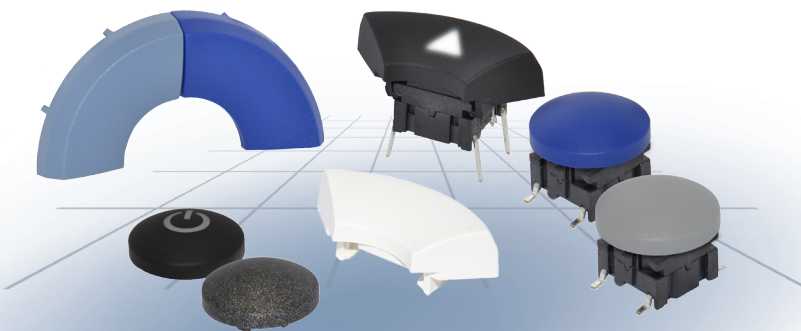
Cable socket: Cvilux CI1120S0000 or similar

Contact: Cvilux Cl11T011PP0 or similar

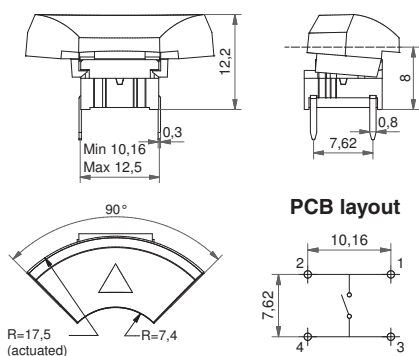
Distributor:

Technical Data:

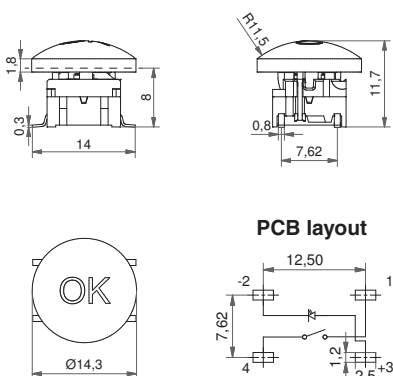
- through-hole or SMD
- 50mA/24VDC
- single pole/momentary
- 10.000.000 operations lifetime
- IP67 sealing
- temperature range:
switch body: -40/+160°C
LED: -30/+85°C
- actuation force: 2.0, 3.5, 6.5 N



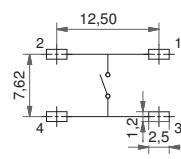
Dimensions (through-hole) + 1ZB



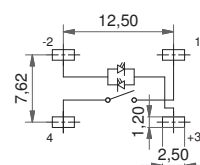
Dimensions (SMD w/LED) + 1ZCS



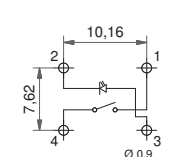
PCB layout SMD



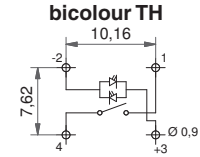
PCB layout bicolour SMD



PCB layout TH w/LED



PCB layout bicolour TH



HOW TO ORDER illuminated

5 G

Switch

Mounting

TH9 through-hole
SH9 surface mount

Actuation force

20
35
65
Q*

LED

01 blue
22 green
42 yellow
61 white
82 red
2242 green/yellow
8222 red/green
8242 red/yellow

1 Z B 1 6 L M

Cap



frosted white
with black soft
touch paint and
laser marking

1 Z C S 1 6 L M

Cap



Legend code

136 ▲

Legend code

118 OK
123 ⏻

HOW TO ORDER non-illuminated

5 G

Switch

Mounting

TH9 through-hole
SH9 surface mount

Actuation force

20
35
65
Q*

1 Z B

Cap



1 Z C S

Cap



Colour code

02 green
03 grey
06 white
08 red
09 black
30 ultra blue
40 dusty blue
42 aqua blue
50 metal dark blue
53 metal light grey
57 metal dark grey
58 metal bordeaux

Legend code**

136 ▲

Legend code**

038 RESET
105 ENTER
118 OK
119 SET
120 MENU
121 FUNC
122 HOME
123 ⏻

*Quiet version only available for actuation force 2.0N (20) and the letter Q is added to the end of the switch part number. See the ordering example.

Ordering example:

4x 5GTH93561+1ZB16LM136 + 1x 5GTH93561+1ZCS16LM118 (with illumination)

4x 5GSH920+1ZB09 + 1x 5GSH920+1ZCS09 (without illumination)

*5GTH92001Q or 5GSH920Q (quiet version)

For product updates and further information see our website: www.mec.dk

** White legends on black caps are standard, other options are available but considered custom products.

Dimensions (mm) Unless otherwise specified, all tolerances +/- 0,2

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Apem:](#)

[1ZC16123](#) [1ZC09118](#) [1ZC30](#) [1ZC03](#) [1ZC09](#) [1ZB16LM136](#) [1ZC16LM118](#) [1ZCS16LM123](#)