

F38 Series – Rugged Trackball Module, Quadrature O/P, 3 Switches

Figure 1: CCL F-Series Trackball module

1 DESCRIPTION

The F38 Series trackball module is a high specification human interface device designed to operate in extremely demanding environments where reliability and robustness are essential.

The module is supplied with three integrated switches which can be configured as per the user's requirements – all three switch outputs are available on the 6-way connector provided (see section 4.2 for pin out details). Alternatively, the number and position of the switches can be selected as part of a custom solution.

The unique aluminium construction provides excellent impact strength, electrical shielding, and environmental protection, making the trackball an all-round robust solution for the most demanding of military, marine and aerospace applications.

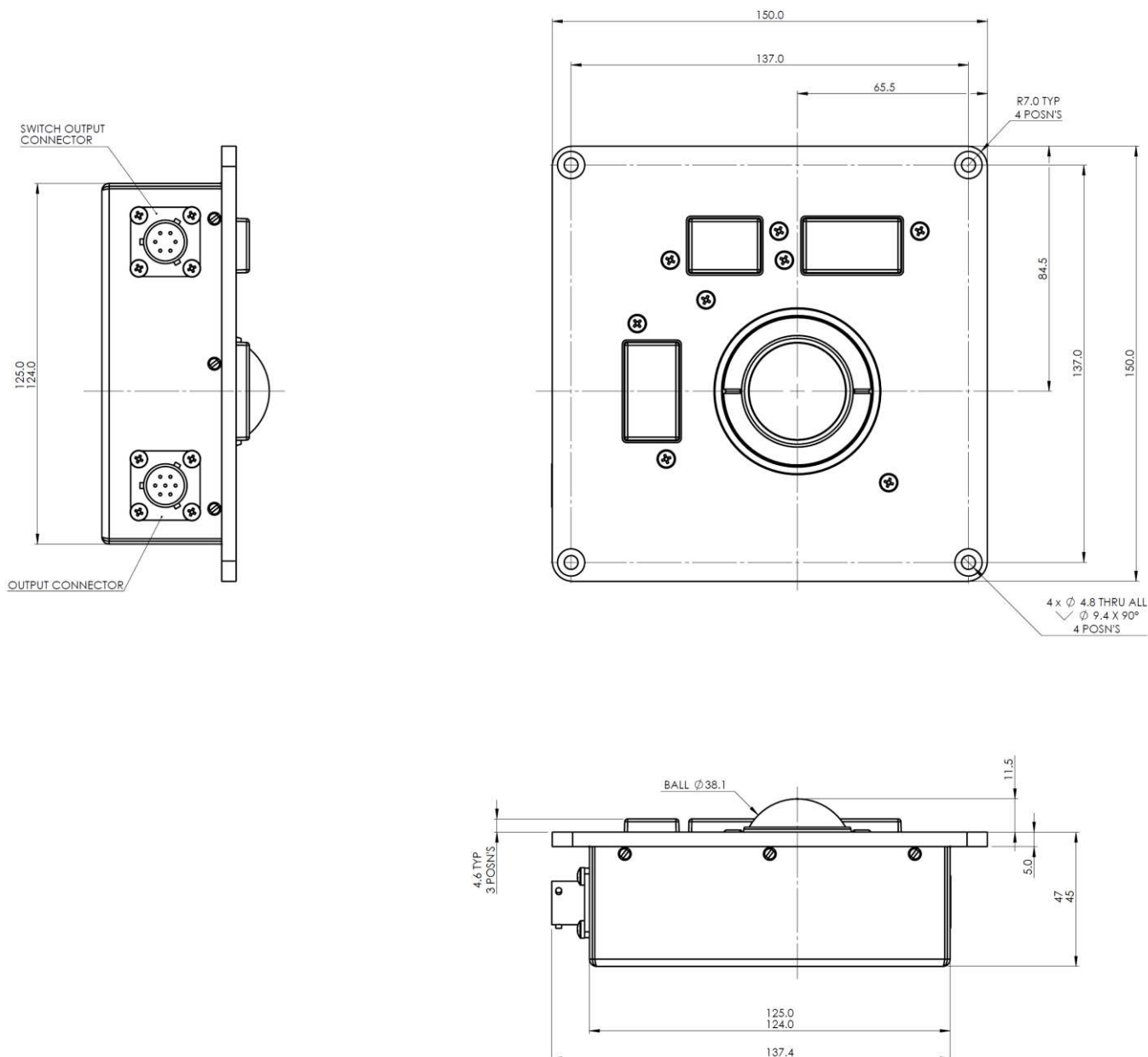
High-grade stainless-steel shafts and bearings ensure a solid and precise pointer control.

The trackball module also includes the Cursor Controls Ltd patent protected anti-vibration technology which ensures that only intended ball movements are transmitted to the host system (i.e. when the user's hand is in contact with the surface of the ball). This feature eliminates any unwanted cursor motion resulting from ball movement caused by external shocks or vibrations.

The F38 Series trackball module can also be configured with various top plate styles providing options on ball tracking force and illumination for use in low light environments.

The trackball module has been designed to be front of panel mounted as part of a rugged keyboard/console.

6 OUTLINE DRAWING



Dimensional drawing specifies factory default orientation.

All dimensions are in mm unless otherwise stated.

Tolerances +/- 0.2mm unless otherwise stated

Please note that an IGES model is available on request. Please contact your local sales office for more information.

8 PRODUCT ORDERING CODE SYSTEM

Please construct your standard product ordering code by selecting the numbers and letters to suit your specification:

F	38	-	5	0	3	1	X	X	-	A
Product Range F = Rugged Series			Ball size (Nominal mm)							
Sealing Capabilities 5 = IPX5										
Electrical Output 0 = TTL Quadrature										
Integrated Switches 3 = Three Integrated Switches										
Mounting Option 1 = Mount to front of panel										
Ball Retention Style Option 3 = Removable polycarbonate bayonet locking ring, black Option 4 = Removable polycarbonate threaded locking ring, black Option 5 = Non-removable polycarbonate ring, black Option 6 = Removable aluminium threaded locking ring, black See product selector document DS38057 for additional top plate style details										
Ball Colour 0 = Black 4 = Yellow										
Tracking Engine A = Mechanical										

For further options on ball colours and top plate styles please contact your local sales representative

8.1 Ordering Example

F38-503130-A: F38 Rugged Series, IPX5, TTL Quadrature, 3 integrated switches, mount to front of panel, removable polycarbonate bayonet locking ring, and black ball.

12 DOCUMENT REVISION STATUS

ISSUE	DATE	AUTHOR	REMARKS
A	13/02/14	C.E.	Document release – NP839
B	29/09/17	C.E.	ECN1788
C	04/02/26	JR	Document title and grammatical corrections

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