

Z38 Series – Ø38mm Optical Trackball, Panel Mount, TTL Quadrature Output



1. DESCRIPTION

Utilizing the latest and most advanced infrared optical tracking technology, the Z38 Series optical Trackerball™ is an extremely high specification, contact-less device, ideal for the most demanding of cursor control applications. The device provides both conventional X and Y-axis cursor movement with an additional Z-axis control wheel surrounding the ball.

The optical tracking engine provides accurate cursor motion at all speeds and on virtually any ball, combining the benefits of solid-state sensing (no moving parts except the ball) with the aesthetics, functionality and performance associated with the Cursor Controls product range.

The Z38 series trackballs are available with a variety of electrical outputs and tracking force options.

The design incorporates a removable top ring as standard to allow for easy cleaning, decontamination, sterilisation and maintenance - ensuring continued optimum performance and operation under the harshest of conditions.

The unit has been designed to be back of panel mounted as part of OEM keyboards and consoles.

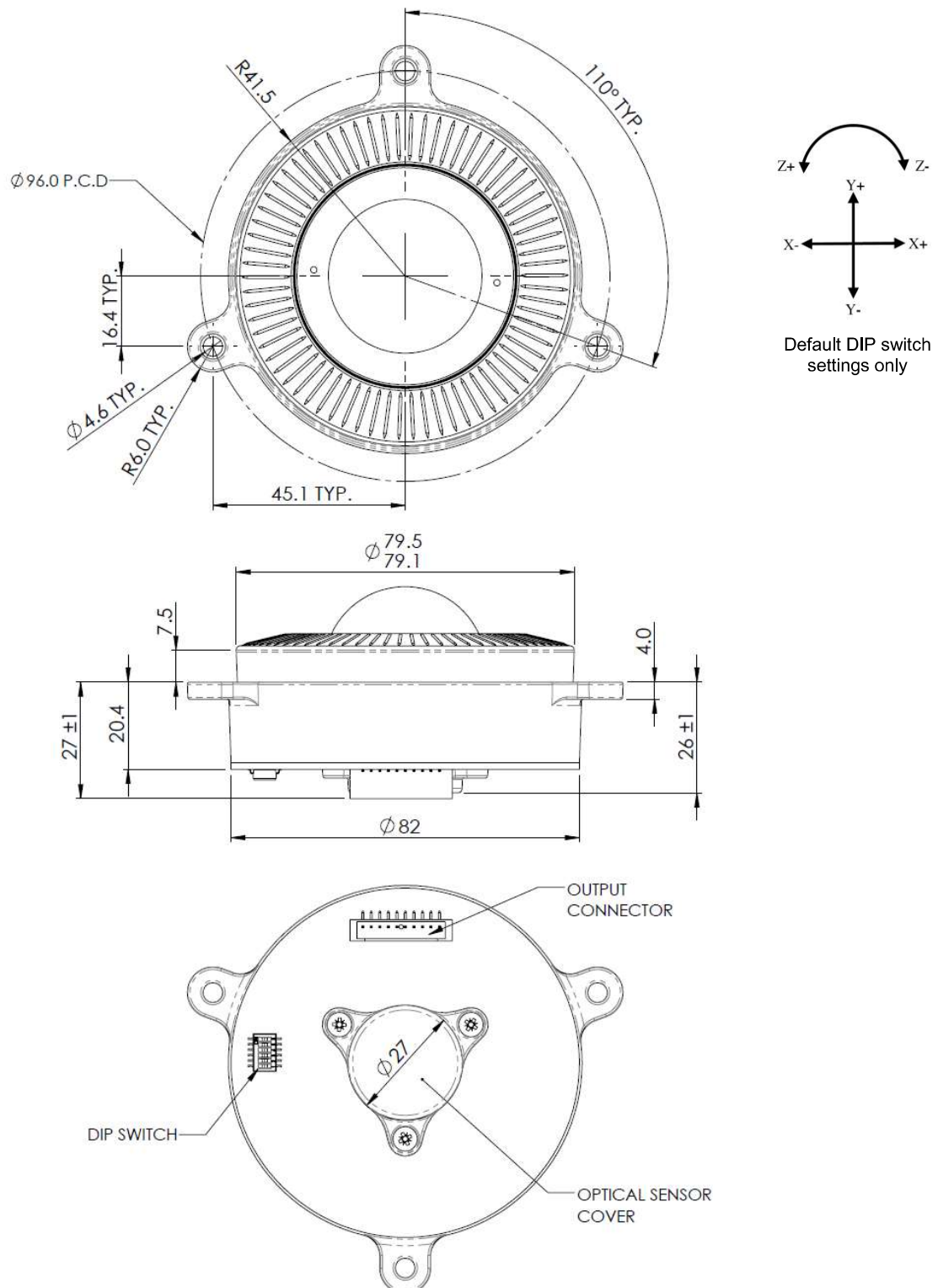
2. FEATURES

- Solid state sensing technology – infrared optical tracking engine (Generation II)
- Z-axis control wheel for scroll / zoom capability
- Output: TTL Quadrature
- Smooth operation in rugged environments
- Various top plate configurations available
- Custom connector options available
- Various ball colours available

3. APPLICATIONS

- Sound and lighting desks
- Video editing consoles
- Medical systems
- Marine systems
- Custom keyboard applications
- Industrial consoles
- OEM custom solutions available

8. DIMENSION DRAWING



Dimensional drawing specifies factory default orientation.

All dimensions are in mm unless otherwise stated.

Tolerances ± 0.25 mm unless otherwise stated

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

9. PRODUCT ORDERING CODE SYSTEM

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

Z	38	-	1	0	0	2	X	X	-	G
Product range Z = Z Series	Ball size (Nominal mm)									
Sealing Capabilities 1 = IP 40										
Electrical Output* 0 = TTL Quadrature										
Integrated Switches 0 = No external Switches										
Mounting Option 2 = Mount to back of panel										
Top Plate & Body Style 1 = Black top ring & 3 rd axis wheel - damper ring 2 = Black top ring & 3 rd axis wheel – silicone rubber seal 3 = Black top ring & 3 rd axis wheel - PTFE seal 4 = Black top ring & 3 rd axis wheel, detent scrolling feature - damper ring 5 = Black top ring & 3 rd axis wheel, detent scrolling feature – silicone rubber seal 6 = Black top ring & 3 rd axis wheel, detent scrolling feature - PTFE seal										
Ball Colour * D = Metallic grey 0 = Black										
Tracking Engine G = Infrared Optical Tracking Technology (Generation II)										

*For further options on ball colours please contact your local sales representative

9.1 Ordering Example

Z38-10021D-G: Z38, IP40, TTL Quadrature output, no external switches, mount to back of panel, black top ring & 3rd axis wheel - damper ring, metallic grey ball, infrared optical tracking technology (Generation II).

Z38-100240-G: Z38, IP40, TTL Quadrature output, no switches, mount to back of panel, black top ring & 3rd axis wheel detent scrolling feature - damper ring, black ball, IR optical tracking technology (Generation II).

10. DOCUMENT HISTORY

Issue	Date	Author	Remarks
A	10.01.19	N.S	NP1202: Document released
B	21.03.22	A.C.H	Detent option added

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