PROXIMITY PROBE HOLDER

ECPH Series – Machine mountable proximity probe housings that provide a sealed method of adjusting the probe position to the machine shaft, offering various mounting and cable exit options.

Robust housing seals to IP66 - Aluminium alloy or stainless steel.

Snap-lock connectors allow rotation of probe cable whilst connected.

Internal adjustment allows movement of probe towards or away from shaft

Locknut.

Flexible conduit or armoured cable.

Stand-off available in lengths up to 200mm.

Mounting thread ensures repeatability of vertical position of probe when removed and refitted.

Dimension ‘L’ measured from machine case outer surface to target (shaft) surface

‘L’

Probe Gap

Extension piece diameter 0.5” (12.7 mm), available in lengths up to 12” (300 mm). 20mm diameter for lengths above 300mm.

Reverse mount eddy current probe with o-ring seal.

Once set to correct position, providing the locknut is left untouched, the probe can be replaced by removing the whole assembly from the machine and on refitting no further adjustment is required.
ECPH Probe Holder

Order Information

ECPH-AXX-BXX-CXX-DXX

A: Standoff Adapter
(Order A
(Dimension): Order in increments of 0.5 in (12.7 mm)
Minimum length: 1.5 in = 1 5 (38.1 mm)
Maximum length: 7.5 in = 7 5 (190.5 mm)
No standoff adapter = 0 0
Example:
2.5 in (63.5 mm) = 2 5

B: Probe Penetration
(Order B
(Dimension): Order in increments of 0.1 in (2.54 mm).
Minimum length: 1.0 in = 0 1 0 (25.4 mm).
Maximum length: See Table 1, “Maximum Length of A and B Dimension for Proximity Probes,”
Examples:
3.7 in (94 mm) = 0 3 7
22.4 in (569 mm) = 2 2 4.

Note: Installed probe P/N and S/N may not be visible for all available “A” plus “B” options.
See Table 2, “Maximum A and B Dimension with Visible Probe P/N and S/N,”

For Probe Penetration Lengths between 1.0 and 2.0 inches, a counter bore may be required in machine case to reduce
probe side view and/or rear view effects.

“A” plus “B” lengths greater than 300 mm (12 in) requires a larger penetration shaft diameter (20mm typ) to prevent
resonance from occurring – please consult factory. Adjustment range of Probe Penetration Option "B" is +/-8mm (+0.3
in). For maximum "A" plus "B" see Table 2, “Maximum Length of A and B Dimension for Proximity Probes,”

C: Fittings Option:  0 0 Without fittings
0 1 One Explosion-proof fitting and one plug
0 2 Two Explosion-proof fittings
0 3 One 3/4-14 NPT plug; one 3/4-14 to 1/2-14 NPT reducer; one cable seal grip with grommets for cable
sizes: 1/8 to 3/16, 1/4 to 5/16, and 5/16 to 3/8-in
0 4 One 3/4-14 NPT plug only

Note: Explosion-proof fittings are available for all housings. However, only CA versions of the housing are rated as
explosion-proof by CSA when ordered with the C:00, C:01, C:02, or C:04 options.

D: Mounting Thread
(Order: 0 1 As cast, without threads
0 2 3/4-14 NPT (Must be ordered if Standoff Adapter Length Option is not -00.)
0 3 1-11 1/2 NPT
0 4 1/2-14 BSP
0 5 7/8-14 UNF-2A
0 6 M24 x 3.0

Note Options 04 – 06 are supplied with suitable ‘O’-ring seal facility - machine case surface must be spot
faced to suite.

Table 1. Maximum Length of A and B Dimension for Proximity Probes

<table>
<thead>
<tr>
<th>Probe Cable Length</th>
<th>Maximum A &amp; B Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 metre</td>
<td>343 mm (13.5 in)</td>
</tr>
<tr>
<td>1.0 metre</td>
<td>742 mm (29.2 in)</td>
</tr>
</tbody>
</table>
Table 2. Maximum A and B Dimension with Visible Probe P/N and S/N

<table>
<thead>
<tr>
<th>Probe Cable Length</th>
<th>Maximum A &amp; B Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 metre</td>
<td>Not Visible</td>
</tr>
<tr>
<td>1.0 metre</td>
<td>432 mm (17.0 in)</td>
</tr>
</tbody>
</table>

![Diagram of sensor probe and associated dimensions](image.png)

IMPORTANT—ALWAYS RETRACT PROBE SHAFT BEFORE FITTING ASSEMBLY TO MOUNTING SURFACE, TO AVOID THE PROBE TIP FROM CONTACTING THE TARGET.

SPECIFY MOUNTING LENGTHS 'B' & 'A' WHEN ORDERING.

- 'B' Max Length 300mm
- 'A' Max Length 220mm

SHAFT ADJUSTMENT ± 8.8mm ADJUSTABLE FROM WITHIN HOUSING.

CAP TO SUIT APPLICATION AND PROBE TYPE.

Reverse Mount E.C. Probe (Order Separately)

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