**Specification Sheet**


**DESCRIPTION**

The H25-FS-R1N, H25-FS-R2N, and H25-FS-R3N are AMCI size 25, flange mount, single turn transducers with side connectors that are mechanical and electrical replacements for Allen-Bradley’s 846-SJDN2CG-R1, 846-SJDN2CG-R2, and 846-SJDN2CG-R3 Industrial Resolvers. Physically identical, the only difference is the resolver embedded in the transducer. Their IP64 rating means they will survive most industrial applications including washdowns.

Several variations of this package, that do not have Allen-Bradley equivalents, are available as special orders. The first option is a shaft seal that raises the environmental rating from IP65 to IP67. The other options are three different shaft sizes, including 1/4 inch, 10 mm, and 3/8 inch with a 3mm keyway. For additional information on these options, contact the factory through our general sales e-mail account; sales@amci.com, or directly at (860) 585-1254 from 8AM to 5PM EST, Monday through Friday.

For additional information on all products available from AMCI, visit our website, www.amci.com.

**PRODUCT COMPATIBILITY**

<table>
<thead>
<tr>
<th>AMCI Part Number</th>
<th>Harowe Equ.</th>
<th>Commonly Used With</th>
</tr>
</thead>
<tbody>
<tr>
<td>H25-FS-R1N</td>
<td>11BRW-300-F</td>
<td>IMC-120™, IMC-123™ &amp; 8200 CNC</td>
</tr>
<tr>
<td>H25-FS-R2N</td>
<td>11BRCX-300-C</td>
<td>8600 CNC, Creonics Resolver Modules</td>
</tr>
<tr>
<td>H25-FS-R3N</td>
<td>11BRCX-300-J1</td>
<td>All AMCI Resolver Products</td>
</tr>
</tbody>
</table>

**DIMENSIONAL DRAWING**

( ) = Dimensions in millimeters

- 1.33" (33.8) max. Total clearance of 5.2" (132) needed for removal of mating connector.
- 1.47" max. sq.
- 1.250" (31.75) 1.249" (31.72)
- 0.218" (5.54) dia. Four places
- 0.900" (22.86) 0.850" (21.59)
- 0.300" (7.62) 0.3744" (9.510) 0.3747" (9.517)
- 2.65" (67.3) 1.032" (26.21) typ.
- 1.032" (26.21) typ.
- 2.66" (67.6) max.

**Connector**

- MS3102E18-1P
- H25-FS-R1N
- H25-FS-R2N
- H25-FS-R3N
- Flange Mount Side Connector

**Dimensions**

- 2.50" (63.5)
- 1.95" (49.5) max.
- .250" (6.35)
- 1.47" max. sq. (37.3)
- 0.900" (22.86) 0.850" (21.59) 0.300" (7.62)
- 1.250" (31.75) 1.249" (31.72)
- 0.218" (5.54) dia. Four places

**Leaders in Advanced Control Products**
**H25-FS-R1N, -R2N, & -R3N Specification Sheet**

**SPECIFICATIONS**

"R1N" ELECTRICAL
- Resolver Type: Control Transformer
- Primary: Stator
- Input Voltage: 12.0 V
- Input Freq: 2500 Hz
- Input Current: 20.0 mA Max.
- Output Voltage: 6.00 V Nom.
- Trans. Ratio (TR): 0.50 ± 5%
  Accuracy: ± 12 min. (max error)

"R2N" ELECTRICAL
- Resolver Type: Transmitter
- Primary: Rotor
- Input Voltage: 6.0 V
- Input Freq: 1000 Hz
- Input Current: 20.0 mA Max.
- Output Voltage: 2.7 V Nom.
- Trans. Ratio (TR): 0.45 ± 5%
  Accuracy: ± 12 min. (max error)

"R3N" ELECTRICAL
- Resolver Type: Transmitter
- Primary: Rotor
- Input Voltage: 7.0 V
- Input Freq: 5000 Hz
- Input Current: 20.0 mA Max.
- Trans. Ratio (TR): 0.95 ± 5%
  Accuracy: ± 12 min. (max error)

**MECHANICAL**
- Shaft Loading: Radial: 40 lbs. max.
  Axial: 20 lbs. max.
- Starting Torque: 1.5 oz.in. @ 25°C
- Moment of Inertia: 6.00X10^-4 oz-in-sec² max.
  Weight: 1 lb.

**ENVIRONMENTAL**
- Shock: 50 g’s for 11 mSec
- Vibration: 15 g’s to 2000 Hz
- Operating Temp: -20 to 125°C
- Enclosure: IP64
  Powder Coat
  Aluminum Body
  303 Stainless Steel Shaft
- IP67 available as option-
  Consult factory.

**IP Ratings:**
- 6 = Totally protected against dust.
- AND: 4 = Protected against sprays from all directions.
- OR: 7 = Protected against the effects of temporary immersion between 15cm and 1m.

**CONNECTOR PINOUT**

The figure below shows the connector pinout to industry standard designations and wire colors. Mating connectors available from AMCI are also given.

Female Mating Connector ............ AMCI Part #
MS3106A18-1S STRAIGHT ............ MSD-10

**FOR MORE INFORMATION**

If you need more information on the H25-FS-R1N, -R2N, or -R3N, use these three resources:

- If you have internet access, check our website at http://www.amci.com. We've worked hard to make our site the repository of information you need to specify and use AMCI products. New product news, product specifications, compatibility tables, application notes, and PDF manuals are all available 24 hours a day.

- You can also call AMCI for sales or technical support at (860) 585-1254 from 8AM to 5PM EST, Monday through Friday. An applications engineer will be available to assist you.

- Finally, you can e-mail us at sales@amci.com or techsupport@amci.com.

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