### Installation Instructions for the Aerospace Proximity Sensors, IHM Series

### PERFORMANCE SPECIFICATIONS

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| 12 Vdc to 28 Vdc | 10 mA max.      | Current sink                 | Target near: 4 mA ≤ Io ≤ 6 mA | Connector (D38999) | 1PXXXX3AXXX     | Pin A: Supply excitation (+)  
|                |                |                              | Target far: 12 mA ≤ Io ≤ 16 mA | Pigtail            | 1PXXXX3AHXX      | Pin B: Output  
|                |                |                              | Internal fault: 9 mA ≤ Io ≤ 11 mA or Io < 1 mA |                  |                 | Pin C: Supply return (-)  |
| 12 Vdc to 28 Vdc | 10 mA max.      | Open collector (Normally closed) | Target near: Switch open, Io ≤ 50 mA | Connector (D38999) | 1PXXXX3BXX      | Pin A: Supply excitation (+)  
|                |                |                              | Target far: Switch close, Vo < 2 V @ 250 mA of Io | Pigtail            | 1PXXXX3BHXX      | Pin B: Output  
|                |                |                              |                            |                    |                 | Pin C: Supply return (-)  |
| 12 Vdc to 28 Vdc | 10 mA max.      | Open collector (Normally open) | Target near: Switch close, Vo < 2 V @ 250 mA of Io | Connector (EN2997) | 1PXXXX3CXX      | Pin 1: Supply excitation (+)  
|                |                |                              | Target far: Switch open, Io ≤ 50 mA | Pigtail            | 1PXXXX3CHXX      | Pin 2: Output  
|                |                |                              |                            |                    |                 | Pin 3: Supply return (-)  
|                |                |                              |                            |                    |                 | Pin 4, 5: No connection  |

*For M8323 and EN2997, connector variant does not have Pin 4 and 5. For D38999 connector, variant numbers 1, 2, 3 are represented as A, B, & C.
Keep-out Zone
It is recommended not to place any metal/magnetic material in the keep-out zone other than target material. Placing any material within the keep-out zone will influence the sensor performance.

Wiring Diagram
The typical electrical wiring shall be made as per Figure 2.

Target Profile
Target material: Stainless steel 17-4PH heat-treated to condition H1025. Typical thickness of target is 3 mm ±0.1 mm.

Proximity Switch Actuation and De-Actuation Curves
The proximity switch shall actuate and de-actuate in accordance with the slide-by curves as per Figure 4.

Warranty/Remedy
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