



## Incremental encoders Encoder, Rotary

DGS35-7H401024

**Model Name**     > [DGS35-7H401024](#)  
**Part No.**         > [7101663](#)

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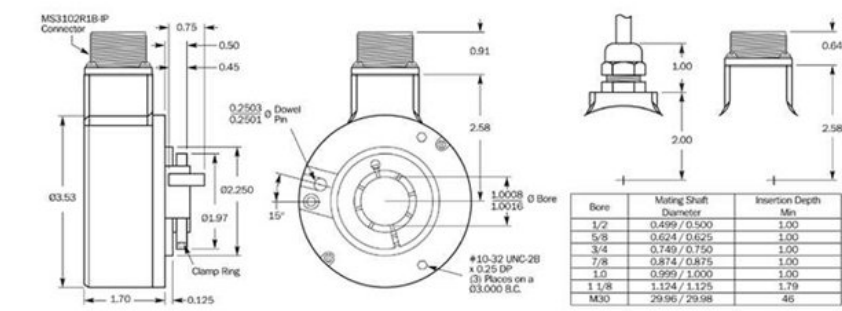
**Product features**

|                        |                               |
|------------------------|-------------------------------|
| Type:                  | Rotary                        |
| Shaft/Flange design:   | Through hollow shaft          |
| Shaft diameter:        | 1"                            |
| Remark::               | T1 Tether                     |
| Interface:             | 5 ... 15 V, HTL/TTL           |
| Connection type:       | Connector, MS, 10-pin, radial |
| Number of lines:       | 1,024                         |
| Number of lines/steps: | 1,024                         |

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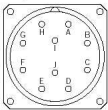
**Technical data**

|                                             |                                        |
|---------------------------------------------|----------------------------------------|
| Moment of inertia of the rotor:             | 490 gcm <sup>2</sup>                   |
| Measuring step:                             | 90°/number of lines                    |
| Measuring step deviation:                   | 45/Z °                                 |
| Ambient operation temperature, min ... max: | -20 °C ... +70 °C                      |
| Max. angular acceleration:                  | 1 x 10 <sup>5</sup> rad/s <sup>2</sup> |
| Operating torque:                           | 7 Ncm                                  |
| Start up torque:                            | 9 Ncm                                  |
| Resistance to shocks:                       | 50/11 g/ms                             |
| Resistance to vibration:                    | 5/2000 Hz @ 20 g                       |
| Supply voltage min ... max:                 | DC 5 ... 15 V                          |
| Permissible relative humidity:              | 95%                                    |
| Voltage output:                             | DC                                     |
| Working temperature range read head:        | -20 °C ... +70 °C                      |
| Storage temperature range read head:        | -30 °C 85 °C                           |
| Voltage area min ... max::                  | DC                                     |



Anschluss-Schema

| Function    | 10 pin | Cable  |
|-------------|--------|--------|
| A           | A      | White  |
| B           | B      | Pink   |
| M           | C      | Lilac  |
| A not       | H      | Brown  |
| B not       | I      | Black  |
| M not       | J      | Yellow |
| +Vs         | D      | Red    |
| Common      | F      | Blue   |
| Case ground | G      | N/A    |
| Shield      | N/A    | N/A    |



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