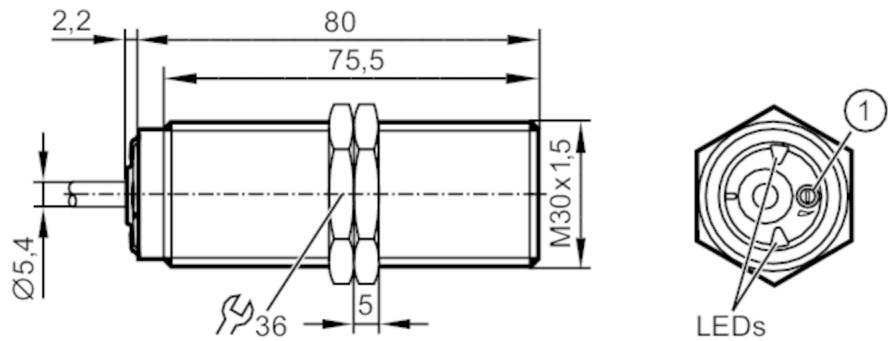


DI0104



Compact evaluation unit for speed monitoring

DIA2010-ZROA/5-3600 I/MIN/OAU



1 potentiometer



| Product characteristics                         |      |                                                                                       |
|-------------------------------------------------|------|---------------------------------------------------------------------------------------|
| Output function                                 |      | normally open                                                                         |
| Sensing range                                   | [mm] | 10                                                                                    |
| Housing                                         |      | Threaded type                                                                         |
| Dimensions                                      | [mm] | M30 x 1.5 / L = 80                                                                    |
| Application                                     |      |                                                                                       |
| Application                                     |      | simple evaluation of rotating and linear movement with regard to underspeed; blocking |
| Electrical data                                 |      |                                                                                       |
| Nominal voltage AC                              | [V]  | 20...250                                                                              |
| Nominal voltage DC                              | [V]  | 20...250                                                                              |
| Nominal frequency AC                            | [Hz] | 45...65                                                                               |
| Protection class                                |      | II                                                                                    |
| Reverse polarity protection                     |      | yes                                                                                   |
| Outputs                                         |      |                                                                                       |
| Total number of outputs                         |      | 1                                                                                     |
| Output function                                 |      | normally open                                                                         |
| Max. voltage drop switching output DC           | [V]  | 8.5                                                                                   |
| Minimum load current                            | [mA] | 6                                                                                     |
| Max. leakage current                            | [mA] | 1.5                                                                                   |
| Permanent current rating of switching output AC | [mA] | 350                                                                                   |
| Permanent current rating of switching output DC | [mA] | 100                                                                                   |
| Short-time current rating of switching output   | [mA] | 2200; (20 ms / 0,5 Hz)                                                                |
| Short-circuit proof                             |      | no                                                                                    |
| Overload protection                             |      | no                                                                                    |
| Monitoring range                                |      |                                                                                       |
| Sensing range                                   | [mm] | 10                                                                                    |
| Sensing range adjustable                        |      | no                                                                                    |
| Real sensing range Sr                           | [mm] | 10 ± 10 %                                                                             |



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|                                      |                  |                                                                              |
|--------------------------------------|------------------|------------------------------------------------------------------------------|
| Operating distance                   | [mm]             | 0...8.1                                                                      |
| <b>Measuring/setting range</b>       |                  |                                                                              |
| Setting range                        | [Imp/min]        | 5...3600                                                                     |
| Measuring principle                  |                  | inductive                                                                    |
| <b>Accuracy / deviations</b>         |                  |                                                                              |
| Correction factor                    |                  | steel: 1 / stainless steel: 0.8 / brass: 0.5 / aluminum: 0.5 / copper: 0.4   |
| Hysteresis                           | [% of Sr]        | 10                                                                           |
| <b>Reaction times</b>                |                  |                                                                              |
| Start-up delay                       | [s]              | < 0.5                                                                        |
| Max. damping frequency               | [Imp/min]        | 4800                                                                         |
| <b>Software / programming</b>        |                  |                                                                              |
| Adjustment of the switch point       |                  | multiturn potentiometer                                                      |
| <b>Operating conditions</b>          |                  |                                                                              |
| Ambient temperature                  | [°C]             | -25...80                                                                     |
| Storage temperature                  | [°C]             | -25...80                                                                     |
| Protection                           |                  | IP 65; IP 67                                                                 |
| <b>Tests / approvals</b>             |                  |                                                                              |
| EMC                                  |                  | EN 60947-5-2                                                                 |
| MTTF                                 | [years]          | 435                                                                          |
| <b>Mechanical data</b>               |                  |                                                                              |
| Weight                               | [g]              | 281.35                                                                       |
| Housing                              |                  | Threaded type                                                                |
| Mounting                             |                  | flush mountable                                                              |
| Dimensions                           | [mm]             | M30 x 1.5 / L = 80                                                           |
| Thread designation                   |                  | M30 x 1.5                                                                    |
| Material                             |                  | housing: brass special coating; PA; TPE-U                                    |
| Tightening torque                    | [Nm]             | 50                                                                           |
| <b>Displays / operating elements</b> |                  |                                                                              |
| Display                              | Switching status | 2 x LED, yellow                                                              |
| <b>Electrical connection</b>         |                  |                                                                              |
| Required protection                  |                  | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting                     |
| <b>Accessories</b>                   |                  |                                                                              |
| Items supplied                       |                  | lock nuts: 2                                                                 |
| <b>Remarks</b>                       |                  |                                                                              |
| Remarks                              |                  | Recommendation Check the safe functioning of the unit after a short circuit. |
| Pack quantity                        |                  | 1 pcs.                                                                       |

# DI0104



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### Electrical connection

Cable: 2 m, PUR; 2 x 0.5 mm<sup>2</sup>

### Connection



Note                      miniature fuse to IEC60127-2 sheet 1  $\leq$  2 A (fast acting)  
Core colors :  
BK =                      black  
WH =                      white