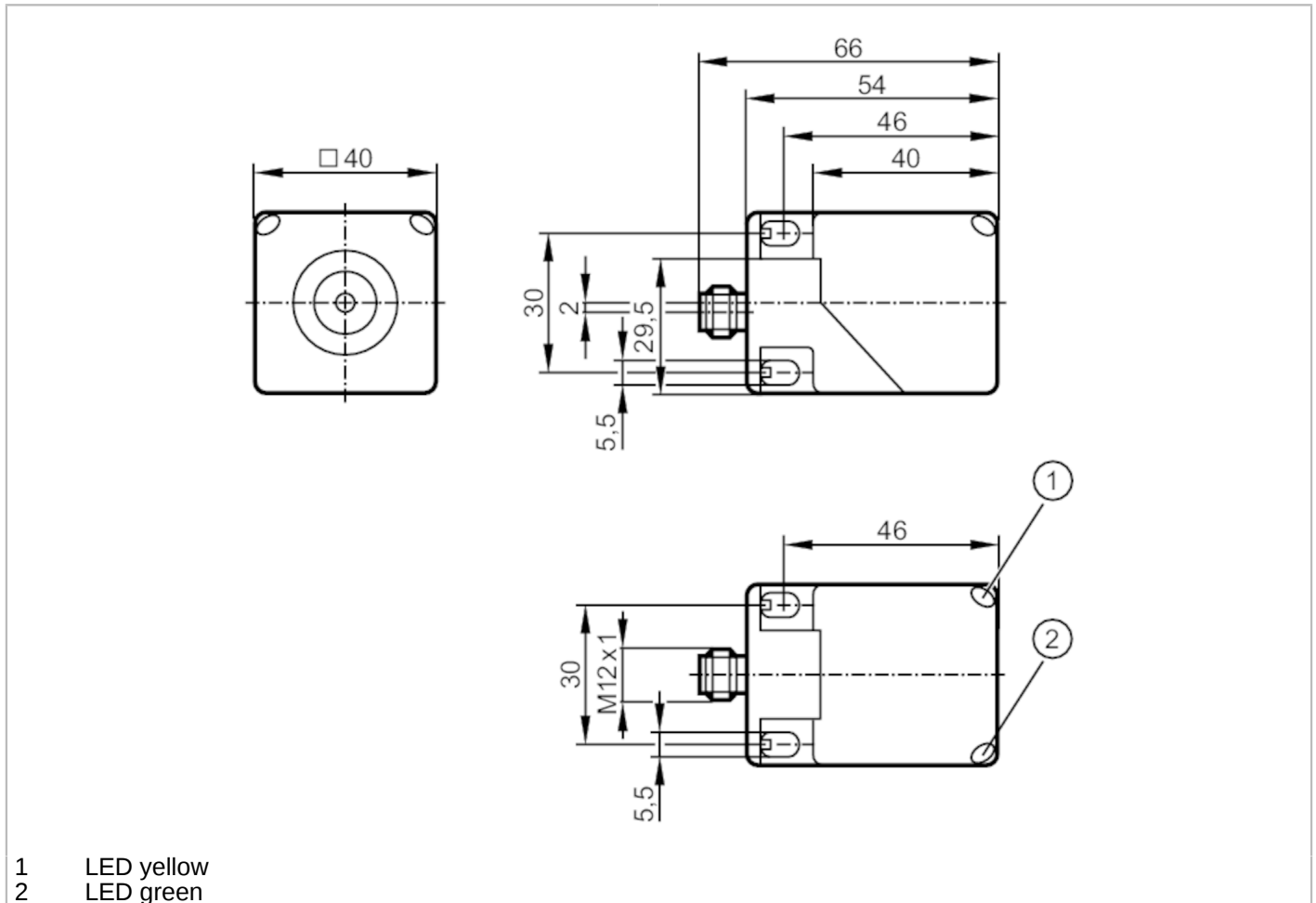


DI5033



Compact evaluation unit for speed monitoring

DMC3020BWRKG/IO/US



| Application | |
|--|---|
| Application | simple evaluation of rotating and linear movement with regard to underspeed; blocking |
| Electrical data | |
| Nominal voltage DC [V] | 10...30 |
| Current consumption [mA] | < 10 |
| Protection class | III |
| Reverse polarity protection | yes |
| Outputs | |
| Electrical design | PNP/NPN |
| Output function | normally open / normally closed; (parameterisable) |
| Max. voltage drop switching output DC [V] | 2.5 |
| Permanent current rating of switching output DC [mA] | 100 |
| Short-circuit proof | yes |
| Overload protection | yes |

DI5033



Compact evaluation unit for speed monitoring

DMC3020BWRKG/IO/US

| Detection zone | | |
|-------------------------------|------------------------------------|---|
| Sensing range | [mm] | 20 |
| Sensing range adjustable | | no |
| Operating distance | [mm] | 0...16.2 |
| Measuring/setting range | | |
| Setting range | [Imp/min] | 5...9600 |
| Accuracy / deviations | | |
| Correction factor | | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis | [% of Sr] | 10 |
| Response times | | |
| Start-up delay | [s] | 0...30; (In steps of: 100 ms; Default: 15 s) |
| Max. damping frequency | [Imp/min] | 12000 |
| Interfaces | | |
| Communication interface | | IO-Link |
| Operating conditions | | |
| Ambient temperature | [°C] | -25...80 |
| Protection | | IP 67 |
| Tests / approvals | | |
| EMC | EN 61000-4-2 ESD | 4 kV CD / 8 kV AD |
| | EN 61000-4-3 HF radiated | 10 V/m |
| | EN 61000-4-4 Burst | 2 kV |
| | EN 61000-4-6 HF conducted | 10 V |
| | EN 55011 | class B |
| | EN 60947-5-2 | |
| MTTF | [years] | 639 |
| UL approval | UL Approval no. | A009 |
| Mechanical data | | |
| Weight | [g] | 175 |
| Housing | | rectangular |
| Mounting | | flush mountable |
| Dimensions | [mm] | 40 x 40 x 54 |
| Materials | | PA; connector thread: brass white bronze coated |
| Displays / operating elements | | |
| Display | operation | LED, green |
| | SIO mode | |
| | output stage supplied with current | 4 x LED, yellow |
| | IO-Link mode | |
| | target in measuring range | 4 x LED, yellow |
| | target outside measuring range | 4 x LED, yellow flashing light |
| Electrical connection | | |
| Connector: 1 x M12 | | |

DI5033

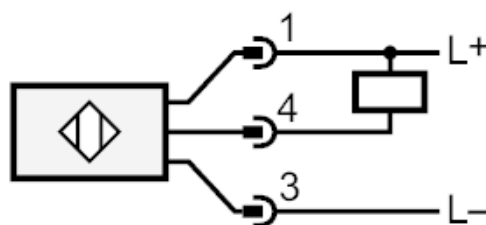
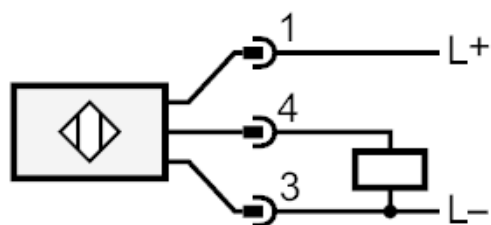


Compact evaluation unit for speed monitoring

DMC3020BWRKG/IO/US



Connection



4: OUT / IO-Link