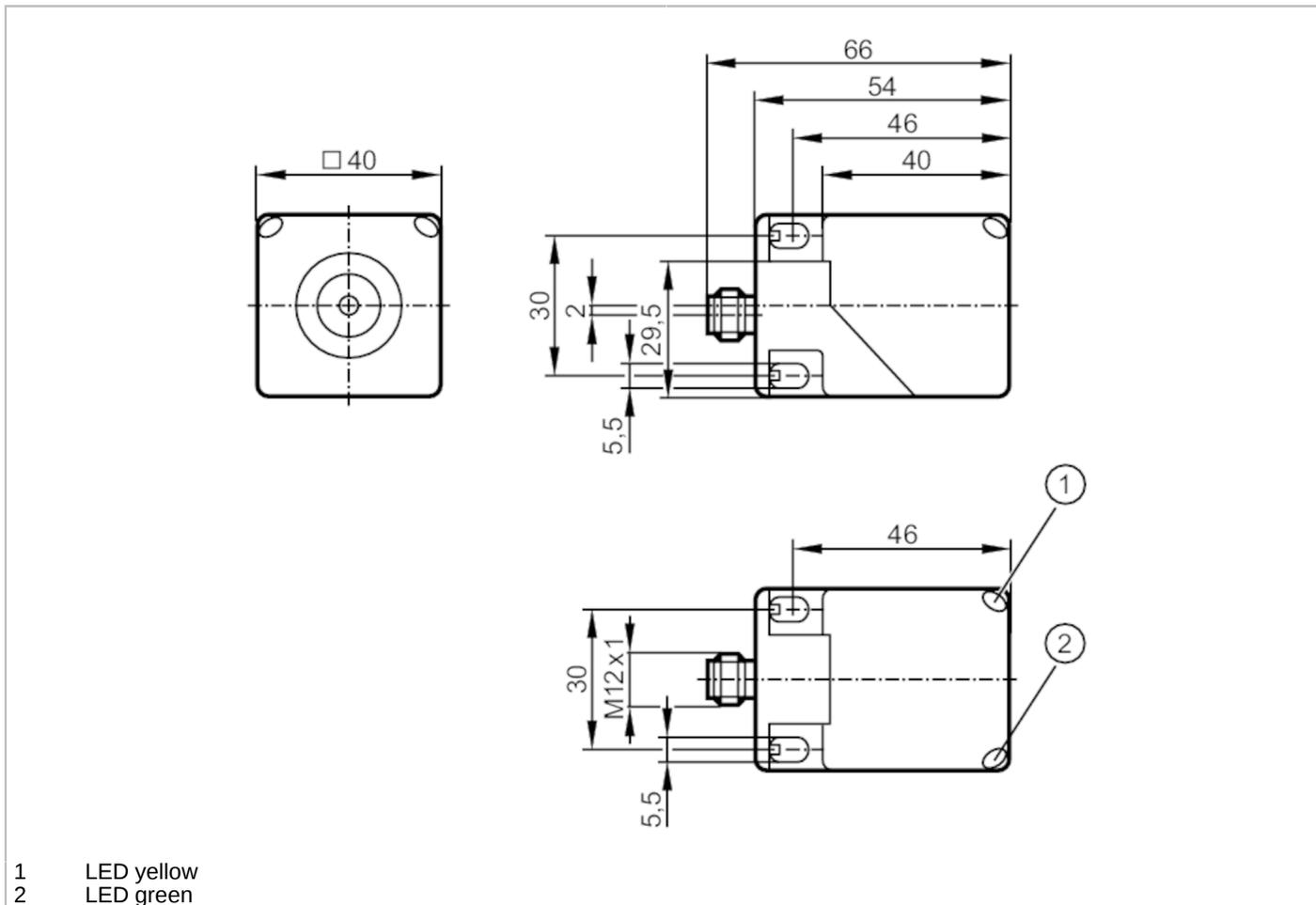


DI5033



Compact evaluation unit for speed monitoring

DMC3020BWRKG/IO/US



Product characteristics

Electrical design	PNP/NPN
Output function	normally open / closed; (configurable)
Sensing range [mm]	20
Communication interface	IO-Link
Housing	rectangular
Dimensions [mm]	40 x 40 x 54

Application

Application	simple evaluation of rotating and linear movement with regard to underspeed; blocking
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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 / closed; (configurable)

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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

Monitoring range	
Sensing range [mm]	20
Sensing range adjustable	no
Operating distance [mm]	0...16.2

Measuring/setting range	
Setting range [Imp/min]	5...9600
Measuring principle	inductive

Accuracy / deviations	
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3
Hysteresis [% of Sr]	10

Reaction 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	
Transmission type	COM2 (38,4 kBaud)	
Profiles	Smart Sensor - SSP 0	Generic Profiled Sensor
	Function	Device identification
	Function	Multiple switching signal
	Function	Process data variable
	Function	Device diagnosis
	Function	Teach channel
Min. process cycle time [ms]	3.2	
Supported DeviceIDs	Type of operation	DeviceID
	default	913

Operating conditions	
Ambient temperature [°C]	-25...80
Storage 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 number	A009

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Mechanical data		
Weight	[g]	175
Housing		rectangular
Mounting		flush mountable
Dimensions	[mm]	40 x 40 x 54
Material		housing: PA

Displays / operating elements		
Display	Power	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

Remarks	
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Moulded body: brass, white bronze coated



Connection



4: OUT / IO-Link