

DI5034



Compact evaluation unit for speed monitoring

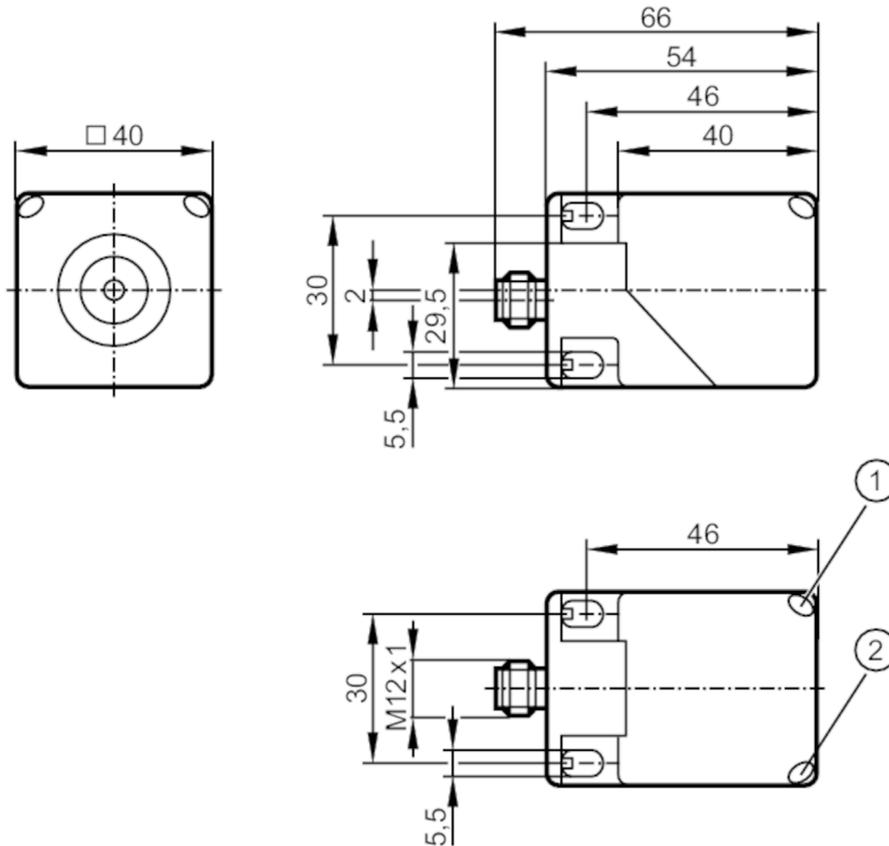
DMC3024-WRKG/IO/US

Article to be discontinued

Discontinuation date: 03/31/2026

Alternative articles: DI5033

When selecting an alternative article and accessories please note that technical data may differ!



- 1 LED yellow
- 2 LED green



Product characteristics

Electrical design	PNP/NPN
Output function	normally open / closed; (configurable)
Sensing range [mm]	24
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

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Reverse polarity protection	yes												
Outputs													
Electrical design	PNP/NPN												
Output function	normally open / closed; (configurable)												
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]	24												
Sensing range adjustable	no												
Operating distance [mm]	0...19.44												
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	<table border="1"> <tr> <td>Smart Sensor - SSP 0</td> <td>Generic Profiled Sensor</td> </tr> <tr> <td>Function</td> <td>Device identification</td> </tr> <tr> <td>Function</td> <td>Multiple switching signal</td> </tr> <tr> <td>Function</td> <td>Process data variable</td> </tr> <tr> <td>Function</td> <td>Device diagnosis</td> </tr> <tr> <td>Function</td> <td>Teach channel</td> </tr> </table>	Smart Sensor - SSP 0	Generic Profiled Sensor	Function	Device identification	Function	Multiple switching signal	Function	Process data variable	Function	Device diagnosis	Function	Teach channel
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	<table border="1"> <tr> <td>Type of operation</td> <td>DeviceID</td> </tr> <tr> <td>default</td> <td>913</td> </tr> </table>	Type of operation	DeviceID	default	913								
Type of operation	DeviceID												
default	913												
Operating conditions													
Ambient temperature [°C]	-40...85												
Storage temperature [°C]	-25...85												
Protection	IP 67												

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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]		636
UL approval	UL approval number	A009

Mechanical data		
Weight [g]		182
Housing		rectangular
Mounting		non-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



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Connection



4: OUT / IO-Link