KB5096

Capacitive sensor

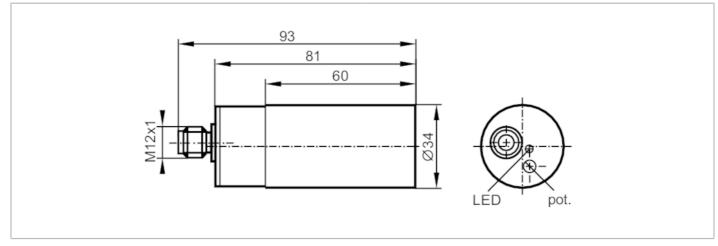
KB-3020-APKG/NI/US-100-DPO



Article no longer available - archive entry

Alternative articles: KI5304 + E10077

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



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Product characteristics		
Electrical design		PNP
Output function		normally closed
Sensing range	[mm]	20
Housing		tubular
Dimensions	[mm]	Ø 34 / L = 93
Electrical data		
Operating voltage	[V]	1036 DC
Current consumption	[mA]	13; (24 V)
Protection class		II
Reverse polarity protection		yes
Outputs		
Electrical design		PNP
Output function		normally closed
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	250
Switching frequency DC	[Hz]	40
Short-circuit proof		yes
Overload protection		yes
Monitoring range		
Sensing range	[mm]	20
Sensing range adjustable		yes
Factory setting sensing range	[mm]	20
Real sensing range Sr	[mm]	20 ± 10 %

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Operating distance

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[mm]



Accuracy / deviations Correction factor glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2 Hysteresis [% of Sr] 315 Switch-point drift [% of Sr] -1515 Operating conditions Ambient temperature [°C] -2570 Protection IP 65 Increased immunity yes; (Increased immunity to conducted radio frequency interference) Tests / approvals EMC EN 60947-5-2 Mechanical data Weight [g] 167.8 Housing tubular Mounting non-flush mountable Dimensions [mm] Ø 34 / L = 93 Material PBT Displays / operating elements Displays / operating elements Using Switching status 1 x LED, yellow Accessories Items supplied Mounting clamp: 1 Screwdriver: 1 Remarks Pack quantity 1 pcs. Electrical connection - plug Connector: 1 x M12; coding: A					
Samith	Accuracy / deviations				
Switch-point drift [% of Sr] -1515 Operating conditions Ambient temperature [°C] -2570 Protection IP 65 Increased immunity yes; (Increased immunity to conducted radio frequency interference) Tests / approvals EMC EN 60947-5-2 Mechanical data Weight [g] 167.8 Housing Mounting non-flush mountable Dimensions [mm] Ø 34 / L = 93 Material PBT Displays / operating elements Display Switching status 1 x LED, yellow Accessories Items supplied Mounting clamp: 1 Remarks Pack quantity 1 pcs. Electrical connection - plug	Correction factor		glass: 0.4 / water: 1 / ceramics: 0.2 /	PVC: 0.2	
Operating conditions Ambient temperature [°C]	Hysteresis	[% of Sr]	315		
Ambient temperature [°C] -2570 Protection IP 65 Increased immunity yes; (Increased immunity to conducted radio frequency interference) Tests / approvals EMC EN 60947-5-2 Mechanical data Weight [g] 167.8 Housing tubular Mounting non-flush mountable Dimensions [mm] Ø 34 / L = 93 Material PBT Displays / operating elements Displays / operating elements 1 x LED, yellow Accessories Items supplied Mounting clamp: 1 Remarks Pack quantity 1 pcs. Electrical connection - plug	Switch-point drift	[% of Sr]	-1515		
Protection IP 65 Increased immunity yes; (Increased immunity to conducted radio frequency interference) Tests / approvals EMC EN 60947-5-2 Mechanical data Weight [g] 167.8 Housing tubular Mounting non-flush mountable Dimensions [mm] Ø 34 / L = 93 Material PBT Displays / operating elements Display Switching status 1 x LED, yellow Accessories Items supplied Mounting clamp: 1 Screwdriver: 1 Remarks Pack quantity 1 pcs. Electrical connection - plug	Operating conditions				
Increased immunity yes; (Increased immunity to conducted radio frequency interference) Tests I approvals EMC EN 60947-5-2 Mechanical data Weight [g] 167.8 Housing tubular Mounting non-flush mountable Dimensions [mm] Ø 34 / L = 93 Material PBT Displays I operating elements Display Switching status 1 x LED, yellow Accessories Items supplied Mounting clamp: 1 screwdriver: 1 Remarks Pack quantity 1 pcs. Electrical connection - plug	Ambient temperature	[°C]	-2570		
Tests / approvals EMC	Protection		IP 65		
EMC EN 60947-5-2 Mechanical data Weight [g] 167.8 Housing 167.8 Mounting non-flush mountable Dimensions [mm] Ø 34 / L = 93 Material PBT Displays / operating elements Display Switching status 1 x LED, yellow Accessories Items supplied Mounting clamp: 1 screwdriver: 1 Remarks Pack quantity 1 pcs. Electrical connection - plug	Increased immunity		yes; (Increased immunity to conducted radio frequency interference)		
Mechanical data Weight [g] 167.8 Housing tubular Mounting non-flush mountable Dimensions [mm] Ø 34 / L = 93 Material PBT Displays / operating elements Display Switching status 1 x LED, yellow Accessories Items supplied Mounting clamp: 1 screwdriver: 1 Remarks Pack quantity 1 pcs. Electrical connection - plug	Tests / approvals				
Weight [g] 167.8 Housing tubular Mounting non-flush mountable Dimensions [mm] Ø 34 / L = 93 Material PBT Displays / operating elements Display Switching status 1 x LED, yellow Accessories Items supplied Mounting clamp: 1 screwdriver: 1 Remarks Pack quantity 1 pcs. Electrical connection - plug	EMC		EN 60947-5-2		
Housing tubular Mounting non-flush mountable Dimensions [mm] Ø 34 / L = 93 Material PBT Displays / operating elements Display Switching status 1 x LED, yellow Accessories Items supplied Mounting clamp: 1 screwdriver: 1 Remarks Pack quantity 1 pcs. Electrical connection - plug	Mechanical data				
Mounting non-flush mountable Dimensions [mm] Ø 34 / L = 93 Material PBT Displays / operating elements Display Switching status 1 x LED, yellow Accessories Items supplied Mounting clamp: 1 screwdriver: 1 Remarks Pack quantity 1 pcs. Electrical connection - plug	Weight	[g]	167.8		
Dimensions [mm] Ø 34 / L = 93 Material PBT Displays / operating elements Display Switching status 1 x LED, yellow Accessories Items supplied Mounting clamp: 1 screwdriver: 1 Remarks Pack quantity 1 pcs. Electrical connection - plug	Housing		tubular		
Material PBT Displays / operating elements Display Switching status 1 x LED, yellow Accessories Items supplied Mounting clamp: 1 screwdriver: 1 Remarks Pack quantity 1 pcs. Electrical connection - plug	Mounting		non-flush mountable		
Displays / operating elements Display Switching status 1 x LED, yellow Accessories Items supplied Mounting clamp: 1 screwdriver: 1 Remarks Pack quantity 1 pcs. Electrical connection - plug	Dimensions	[mm]	Ø 34 / L = 93		
Display Switching status 1 x LED, yellow Accessories Items supplied Mounting clamp: 1 screwdriver: 1 Remarks Pack quantity 1 pcs. Electrical connection - plug	Material		PBT		
Accessories Items supplied Mounting clamp: 1 screwdriver: 1 Remarks Pack quantity 1 pcs. Electrical connection - plug	Displays / operating el	lements			
Items supplied Mounting clamp: 1 screwdriver: 1 Remarks Pack quantity 1 pcs. Electrical connection - plug	Display		Switching status 1 x LED, yello	W	
Remarks Pack quantity 1 pcs. Electrical connection - plug	Accessories				
Remarks Pack quantity 1 pcs. Electrical connection - plug	Items supplied		Mounting clamp: 1		
Pack quantity 1 pcs. Electrical connection - plug			screwdriver: 1		
Electrical connection - plug	Remarks				
	Pack quantity		1 pcs.		
Connector: 1 x M12; coding: A	Electrical connection -	- plug			
$\frac{2}{3}$	Connector: 1 x M12; cod	ling: A			
2 1 3 4					
3 4					
3 4	2 1				
3 4					
	3 4				

0...16.2

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Connection

