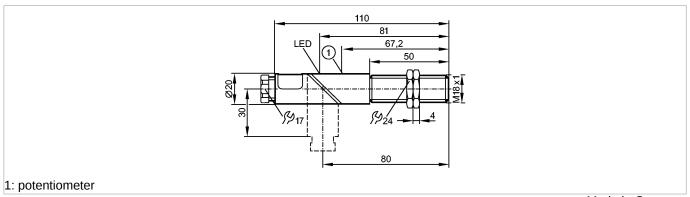
## efector15°

## KG5040

KGE2008-FRKG/NI **Capacitive sensors** 





MTTF

Mounting

Mechanical data

[Years]

Product characteristics	1. potentiometer		Made in Germany				
Capacitive sensor           Plastic thread M18 x 1           Terminals           Sensing range 8 mm; adjustable 2.58 mm; [nf] non-flush mountable           Electrical data           Electrical design         DC PNP/NPN           Operating voltage         [V]           Protection class         II           Output s         II           Output function         normally open / closed programmable           Voltage drop         [V]           Minimum load current         [mA]           Leakage current         [mA]           Current rating         [mA]           Current rating frequence         [mA]           Switching frequency         [Hz]           Switching frequency         [Hz]           Switching frequency         [Hz]           Sensing range         [mm]           Real sensing range (Sr)         [mm]           Operating distance         [mm]	(W) (E						
Plastic thread M18 x 1   Terminals   Sensing range 8 mm; adjustable 2.58 mm; [nf] non-flush mountable   Electrical data   DC PNP/NPN	<b>Product characteristics</b>						
Terminals   Sensing range 8 mm; adjustable 2.58 mm; [nf] non-flush mountable	Capacitive sensor						
Sensing range 8 mm; adjustable 2.58 mm; [nf] non-flush mountable   Electrical data	Plastic thread M18 x 1						
DC PNP/NPN	Terminals						
DC PNP/NPN	Sensing range 8 mm; adjustable 2.58 mm; [nf] non-flush mountable						
Operating voltage         [V]         1055 DC           Protection class         II           Outputs         Output function         normally open / closed programmable           Voltage drop         [V]         < 4.6           Minimum load current         [mA]         4           Leakage current         [mA]         200; 400 (50 °C)           Short-circuit protection         pulsed           Overload protection         yes           Switching frequency         [Hz]         50           Range           Sensing range         [mm]         8, adjustable 2.58 mm           Real sensing range (Sr)         [mm]         8 ± 10 %           Operating distance         [mm]         06.5           Accuracy / deviations           Correction factors         water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2           Hysteresis         [% of Sr]         115           Switch-point drift         [% of Sr]         -1515           Environment           Ambient temperature         [°C]         -2580           Protection         IP 65	Electrical data						
Protection class	Electrical design		DC PNP/NPN				
Outputs           Output function         normally open / closed programmable           Voltage drop         [V]         < 4.6           Minimum load current         [mA]         4           Leakage current         [mA]         200; 400 (50 °C)           Current rating         [mA]         200; 400 (50 °C)           Short-circuit protection         pulsed           Overload protection         yes           Switching frequency         [Hz]         50           Range           Sensing range         [mm]         8, adjustable 2.58 mm           Real sensing range (Sr)         [mm]         8 ± 10 %           Operating distance         [mm]         06.5           Accuracy / deviations           Correction factors         water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2           Hysteresis         [% of Sr]         115           Switch-point drift         [% of Sr]         -1515           Environment           Ambient temperature         [°C]         -2580           Protection         IP 65	Operating voltage	[V]	1055 DC				
Output function         normally open / closed programmable           Voltage drop         [V]         < 4.6	Protection class		<u> </u>				
Voltage drop         [V]         < 4.6	Outputs						
Minimum load current       [mA]       4         Leakage current       [mA]       < 1	Output function		normally open / closed programmable				
Leakage current         [mA]         < 1	Voltage drop	[V]	< 4.6				
Current rating         [mA]         200; 400 (50 °C)           Short-circuit protection         pulsed           Overload protection         yes           Switching frequency         [Hz]         50           Range         Sensing range         [mm]         8, adjustable 2.58 mm           Real sensing range (Sr)         [mm]         8 ± 10 %           Operating distance         [mm]         06.5           Accuracy / deviations         water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2           Hysteresis         [% of Sr]         115           Switch-point drift         [% of Sr]         -1515           Environment         Ambient temperature         [°C]         -2580           Protection         IP 65	Minimum load current	[mA]	4				
Short-circuit protection         pulsed           Overload protection         yes           Switching frequency         [Hz]         50           Range         Sensing range         [mm]         8, adjustable 2.58 mm           Real sensing range (Sr)         [mm]         8 ± 10 %           Operating distance         [mm]         06.5           Accuracy / deviations         Accuracy / deviations           Correction factors         water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2           Hysteresis         [% of Sr]         115           Switch-point drift         [% of Sr]         -1515           Environment         Ambient temperature         [°C]         -2580           Protection         IP 65	Leakage current	[mA]	<1				
Overload protection         yes           Switching frequency         [Hz]         50           Range         Sensing range         [mm]         8, adjustable 2.58 mm           Real sensing range (Sr)         [mm]         8 ± 10 %           Operating distance         [mm]         06.5           Accuracy / deviations         Correction factors         water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2           Hysteresis         [% of Sr]         115           Switch-point drift         [% of Sr]         -1515           Environment           Ambient temperature         [°C]         -2580           Protection         IP 65	Current rating	[mA]	200; 400 (50 °C)				
Switching frequency         [Hz]         50           Range         Sensing range         [mm]         8, adjustable 2.58 mm           Real sensing range (Sr)         [mm]         8 ± 10 %           Operating distance         [mm]         06.5           Accuracy / deviations	Short-circuit protection		pulsed				
Range           Sensing range         [mm]         8, adjustable 2.58 mm           Real sensing range (Sr)         [mm]         8 ± 10 %           Operating distance         [mm]         06.5           Accuracy / deviations           Correction factors         water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2           Hysteresis         [% of Sr]         115           Switch-point drift         [% of Sr]         -1515           Environment           Ambient temperature         [°C]         -2580           Protection         IP 65	Overload protection		yes				
Sensing range         [mm]         8, adjustable 2.58 mm           Real sensing range (Sr)         [mm]         8 ± 10 %           Operating distance         [mm]         06.5           Accuracy / deviations         Correction factors         water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2           Hysteresis         [% of Sr]         115           Switch-point drift         [% of Sr]         -1515           Environment         Ambient temperature         [°C]         -2580           Protection         IP 65	Switching frequency	[Hz]	50				
Real sensing range (Sr)         [mm]         8 ± 10 %           Operating distance         [mm]         06.5           Accuracy / deviations         Correction factors         water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2           Hysteresis         [% of Sr]         115           Switch-point drift         [% of Sr]         -1515           Environment         Ambient temperature         [°C]         -2580           Protection         IP 65	Range						
Operating distance         [mm]         06.5           Accuracy / deviations	Sensing range	[mm]	8, adjustable 2.58 mm				
Accuracy / deviations  Correction factors water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2  Hysteresis [% of Sr] 115  Switch-point drift [% of Sr] -1515  Environment  Ambient temperature [°C] -2580  Protection IP 65	Real sensing range (Sr)	[mm]	8 ± 10 %				
Correction factors         water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2           Hysteresis         [% of Sr]           Switch-point drift         [% of Sr]           Environment           Ambient temperature         [°C]           Protection         IP 65	Operating distance	[mm]	06.5				
Hysteresis [% of Sr] 115  Switch-point drift [% of Sr] -1515  Environment  Ambient temperature [°C] -2580  Protection IP 65	Accuracy / deviations						
Switch-point drift         [% of Sr]         -1515           Environment         -2580           Protection         IP 65	Correction factors		water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2				
Environment  Ambient temperature [°C] -2580  Protection IP 65	Hysteresis	[% of Sr]	115				
Ambient temperature [°C] -2580  Protection IP 65	Switch-point drift	[% of Sr]	-1515				
Protection IP 65	Environment						
	Ambient temperature	[°C]	-2580				
Tests / annrovals	Protection		IP 65				
16363 rapprovais	Tests / approvals						
EMC IEC 60947-5-2: 2007	EMC		IEC 60947-5-2: 2007				

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non-flush mountable

## efector15°



KGE2008-FRKG/NI Capacitive sensors

Housing materials		PBT
Weight	[kg]	0.079
Displays / operating elem	ents	
Output status indication	LED	yellow

Electrical conne	otion

Connection terminals up to 2.5 mm²; cable diameter 4.5...10 mm, cable gland M16 x 1.5

Wiring



Accessories		
Accessories (included	l)	2 lock nuts; screwdriver
Remarks		
Pack quantity	[piece]	1

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