

Preliminary Datasheet

Dimensions mm[inch]
 tolerances acc. to DIN ISO 2768-m
 Toleranzen gem. DIN ISO 2768-m

Isometric
 Scale 2:1
 Maßstab 2:1

Test circuit

Layout
 Top view
 Draufsicht

Marking
 according to EN60062/factory code
 gem. EN60062/Fertigungsstätte

MEDER 522-03-i
 KIWA 18ATEX0017 U 0344
 Ex II (1) G [Ex ia Ga] IIC YMP

Elect. Coupler Characteristic	Conditions	Min	Typ	Max	Unit
Turn-on Time 1 Ton	If=10mA,Uce=5V,RL=100 Ohm		5,5		µS
Turn-Off Time 1 Toff	If=10mA,Uce=5V,RL=100 Ohm		4,2		µS
Current Transfer Ratio Ic/If CTR	If=10 mA	0,5	0,8		
Cut-Off Frequency 1 Fco	If=10mA,Uce=5V,RL=100 Ohm		50		kHz
Insulation Resistance Input/Output	RH 45%	1.000			GOhm
Insulation Voltage Input/Output Uio		4.000			VDC
Coupling capacitance Cc			0,4		pF
Creeping Distance		12			mm
Air Path Input/Output		12			mm
Insulation Distance Emitter-Detecto		2			mm

Maximum Ratings Emitter	Conditions	Min	Typ	Max	Unit
Forward Voltage Uf	If=10 mA			1,5	V
DC Forward Current If				75	mA
Reverse Voltage Ur	Ir=100 microA			5	V
Surge Forward current Ifs	t<=10 ms			500	mA
Power Dissipation Ptot				170	mW

Maximum Ratings Detector	Conditions	Min	Typ	Max	Unit
Collector-Emitter Voltage Vce				32	VDC
Emitter-Collector Voltage Vec				5	VDC
Collector Dark Current Iceo	Uce=20V,R=1MOhm,If=0mA			0,2	µA
Collector-Emitter Saturation Voltag	If=10 mA, Ic=1 mA		0,3		VDC
Collector Peak Current Icm				100	mA
Collector Current Ic				50	mA
Power Dissipation Ptot				100	mW



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Item No.:

5252203000

Item:

522-03-i

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Special Product Data	Conditions	Min	Typ	Max	Unit
Connection pins					cu-alloy tinned
Case colour					blue
Housing material					Plastic
Reach / RoHS conformity					yes
Sealing compound					Polyurethan
Approval					KIWA 18ATEX0017 U
Approval					IECEX KIWA 18.0009U

Environmental data	Conditions	Min	Typ	Max	Unit
Ambient Temperature Ta		-40		85	°C
Storage temperature		-40		100	°C
Soldering temperature	wave soldering max. 5 sec.			260	°C
Shock	1/2 sine, duration 11ms, in 3 axis			50	g
Vibration	from 10 - 2000 Hz			20	g
Washability					fully sealed

Modifications in the sense of technical progress are reserved

Designed at: 06.04.09 Designed by: KSCHIELENSKI Approval at: 10.01.14 Approval by: KOLBRICH

Last Change at: 14.12.18 Last Change by: SSCHNECKENBURGER Approval at: Approval by:

Version: 12