

Dimensions (mm)	Test circuit	Layout / Pitch 2,54 mm / Top View	Marking
			MEDER-Label Type Prod.-Code- EN60062 /Factory Code PTB 01 ATEX 2042 U 0344 II (1) G [EEEx ia] IIC
 Pins: \varnothing 0,65 mm / L 3,2 +0,8 -0,3 mm			

Electrical Characteristics	Conditions (at T _A = 25°C)	Symbol	Min.	Typ.	Max.	Units
Isolation Voltage Input / Output		V _{IO}	4.000			VDC
Insulation Resistance Input / Output	RH 45%	R _{IO}	10 ¹⁰			Ω
Coupling Capacitance		C _C		0,5		pF
Forward Voltage	I _F 10 mA	V _F		2	2,6	V
Reverse Voltage	I _R 100 µA	V _{BR}	3			V
Input Threshold Current		I _{FT}		2		mA
Output Voltage	I _F = 5 mA	V _{OL}			0,6	V
Cut-Off Frequency	U _S =5V, I _F =4 mA, R _L =1 kΩ	F _{CO}		500		kHz

Coupled Device					
Creeping Distance			14		mm
Air Path Input / Output			14		mm
Insulation Distance, Emitter to Detector			6		mm

Switching Time					
Turn-on Time	U _S =5V, I _F =4 mA, R _L =1 kΩ	T _{on}		0,5	µs
Turn-off Time	U _S =5V, I _F =4 mA, R _L =1 kΩ	T _{off}		0,5	µs

Maximum Ratings Emitter					
Reverse Voltage		V _R			3 V
DC Forward Current		I _F			45 mA
Surge Forward Current	t ≤ 10 µs, Absolute	I _{FS}			1 A
Power Dissipation		P _{TOT}			120 mW
Junction Temperature		T _J			100 °C

Maximum Ratings Detector					
Supply Voltage		V _S	0,5		7 V
Supply Current	V _S =5V	I _S			18 mA
Collector Voltage		V _C	0,5		7 V
Output Current		I _O			50 mA
Power Dissipation		P _{TOT}			85 mW
Junction Temperature		T _J			100 °C

Environmental Data					
Ambient Temperatur Range		T _A	- 25		+ 85 °C
Storage Temperatur Range		T _{stg}	- 40		+ 100 °C
Soldering Temperature	5 sec. at				260 °C
Cleaning					fully sealed
Material of Case					Plastics
Sealing Compound					Polyurethan
Material of Pins					Cu-alloy tinned

Remarks: Optocoupler with Schmitt-Trigger Logic Output.
 Galvanically separated circuits, suitable for intrinsic safety circuits. PTB 01 ATEX 2042 U

Customer / Customer part number	Standard Part
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