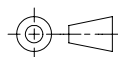
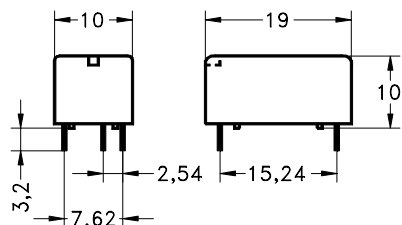
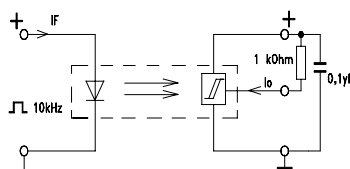
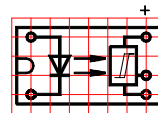


Dimensions (mm)


Pins: Ø 0,65 mm / L 3,2 +0,8 -0,3 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

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
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Customer / Customer part number	Standard Part
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