WURTH ELEKTRONIK MORE THAN YOU EXPECT

PERFORMANCE. RELIABILITY. SERVICE.

Optocouplers by Würth Elektronik





Optocouplers by Würth Elektronik

With the new optocouplers, Würth Elektronik presents one of the latest additions to its optoelectronic product portfolio. The innovative design features a coplanar structure and high-grade silicon for total internal reflection. This ensures the isolation gap stay fixed during the production process and provide perfect isolation and protection for your application. The total internal reflection provide stable CTR over the whole temperature range and high CTR even at low current operation.

Provided in all industry standard packages. Available with all binnings ex stock. Samples free of charge: www.we-online.com/optocoupler

Highlights

- Innovative coplanar design
- High grade silicon encapsulation
- · Copper leadframe for high reliability
- Stable CTR over whole temperature range
- · High CTR in low current operation



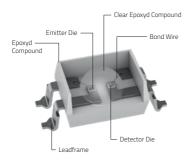






OPTOCOUPLER

GENERAL INFORMATION



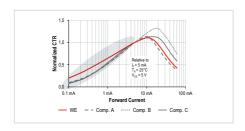
Optocouplers - What's that?

- Transfers analog/ digital signals between two isolated circuits by using light transmission
- Optoelectronic package with infrared LED & detector
- The optical transmission takes place with an infrared light beam

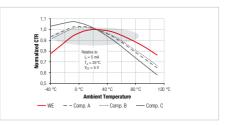
Why Optocouplers?

- Separation of low power control circuits from high power circuits (galvanic isolation)
- Optocouplers protect your application against overvoltages
- Safety Isolation: for circuits and persons from dangerous electrical installations

PERFORMANCE

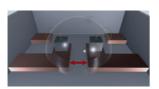


High CTR in low current operation

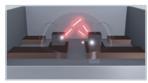


Stable CTR over whole temperature range

RELIABILITY & QUALITY



Fixed isolation gap for perfect isolation and protection



High quality silicon and polymer materials ensure stable CTR

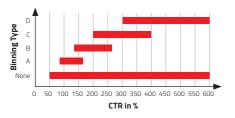


Copper Leadframe for high reliability and solderability

SERVICE

Learn more about optocouplers and how to increase their lifetime:

www.we-online.com/ano006



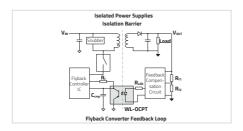




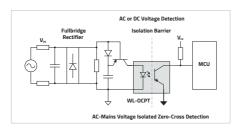
Different CTR binnings possibilities available

Every package available with all binnings ex stock

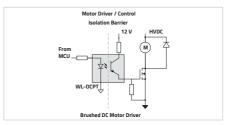
APPLICATION EXAMPLES



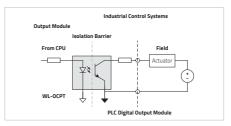
Providing robust galvanic isolation of feedback control loop in SMPS



Safety isolation in phase-controlled AC motor, safety relays/switches, etc.

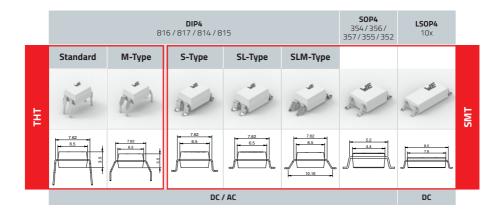


Breaking ground loops and providing safety isolation in high-voltage motor drivers



Ensuring noise immunity and safety in industrial environments

OPTOCOUPLER PRODUCT OVERVIEW



WL-OCPT OPTOCOUPLER PHOTOTRANSISTOR

Input	Schematic	Series	Order Code	Package	V _{ISO} (V _{RMS})	V _{CE max.} (V)	CTR _{min.} (%)	CTR _{max.} (%)
DC		816	140816xx	DIP4	5000	80	50	600
		817	140817xx	DIP4	5000	35		
		356	140356xx	SOP4	3750	80		
		357	140357xx	SOP4	3750	35		
		10x	14010xx	LSOP4	5000	80		
AC	**	814	140814xx	DIP4	5000	80	20	300
		354	140354xx	SOP4	3750	80		

WL-OCDA OPTOCOUPLER DARLINGTON

Input	Schematic	Series	Order Code	Package	V _{ISO} (V _{RMS})	V _{CE max.} (V)	CTR _{min.} (%)	CTR _{max.} (%)
DC		815	141815xx	DIP4	5000	40	600	7500
		355	141355xx	SOP4	3750	40		
DC		352	141352xx	SOP4	3750	350	1000	15000





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