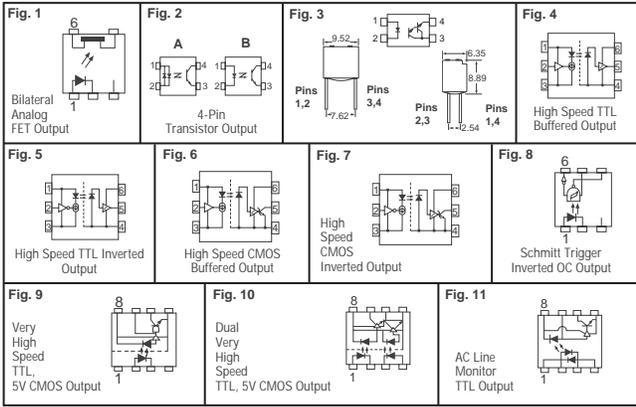


Optoisolators



4-Pin Couplers

Fig.	Isolation Voltage	Current Transfer Ratio	V _{CEO} (Max.)	Typ. I _{on} /I _{off} (μsec.)	Pkg. Type	Digi-Key Part No.	Price Each	1	10	100
2A	5300	20-300%	35	2.4/2.4	DIP	H11AA814-ND	.52	.39	.30	
	5300	50-150%	35	2.4/2.4	DIP	H11AA814A-ND	.52	.39	.30	
2B	5300	50-600%	35	2.4/2.4	DIP	H11A817-ND	.43	.35	.26	
	5300	80-160%	35	2.4/2.4	DIP	H11A817A-ND	.47	.38	.28	
	5300	130-260%	35	2.4/2.4	DIP	H11A817B-ND	.47	.38	.28	
	5300	200-400%	35	2.4/2.4	DIP	H11A817C-ND	.47	.38	.28	
	5300	300-600%	35	2.4/2.4	DIP	H11A817D-ND	.52	.39	.30	
3	5300	100% (Min.)	30	9.0/4.0	DIP	H24A1-ND	2.38	1.91	1.49	

Logic Output Optoisolators

Fig.	Function	Input: LS TTL	15M Baud Rt. Output Configuration	Pkg. Type	Digi-Key Part No.	Price Each	1	10	100
4	Buff.	TTL	Totem Pole	DIP	740L6000-ND	3.07	2.46	1.92	
	Buff.	TTL	Totem Pole	SMT	740L6000S-ND	3.07	2.46	1.92	
5	Inv.	TTL	Totem Pole	DIP	740L6001-ND	3.07	2.46	1.92	
6	Buff.	CMOS	Open Collect.	DIP	740L6010-ND	3.07	2.46	1.92	
7	Inv.	CMOS	Open Collect.	DIP	740L6011-ND	3.07	2.46	1.92	

Fig.	Iso. Volt.	I _{on} Current (Max.) mA	ICCL (Max.)	Oper. Voltage (Max.)	Pkg. Type	Digi-Key Part No.	Price Each	1	10	100	Tape & Reel Pricing 1,000
8	5300	1.6	5	16V	SMT	H11L1SM-ND	.95	.79	.63		
	5300	1.6	5	16V	DIP	H11L1-MOT-ND	.95	.79	.63		
	5300	1.6	5	16V	DIP	H11L1V-MOT-ND †	.95	.79	.63		
	5300	10	5	16V	DIP	H11L2-ND	.86	.72	.58		
	5300	10	5	16V	SMT	H11L2S-ND	.86	.72	.58		
	5300	10	5	16V	DIP	H11L2-MOT-ND	.86	.72	.58		
	5300	5	5	16V	DIP	H11L3-MOT-ND	.90	.75	.60		
	5300	3.2	10	16V	DIP	H11N1-MOT-ND	3.84	3.07	2.39		
	5300	10	10	16V	DIP	H11N3-MOT-ND	2.60	2.08	1.62		
	5300	4.0	5	16V	DIP	MOC5008M-ND	.90	.76	.61		
	5300	10.0	5	16V	DIP	MOC5009M-ND	.86	.72	.58		
	8	7500	1.6	5	15V	DIP	H11L1M-ND	.95	.79	.63	
7500		6.0	5	15V	DIP	H11L1SR2MCT-ND*	.97	.81	.65	428.26	
7500		1.6	5	15V	SMD	H11L1SR2VMCT-ND*	.97	.81	.65	428.26	
7500		1.6	5	15V	SMD	H11L1SVM-ND	.95	.79	.63		
7500		1.6	5	15V	DIP	H11L1TM-ND	.95	.79	.63		
7500		1.6	5	15V	DIP	H11L1TVM-ND	.95	.79	.63		
7500		10.0	5	15V	DIP	H11L1VM-ND	.95	.79	.63		
7500		10.0	5	15V	DIP	H11L2M-ND	.86	.72	.58		
7500		10.0	5	15V	SMD	H11L2SM-ND	.86	.72	.58		
7500		10.0	5	15V	SMD	H11L2SR2MCT-ND*	.88	.74	.59	389.69	
7500		10.0	5	15V	SMD	H11L2SR2VMCT-ND*	.88	.74	.59	389.69	
7500		10.0	5	15V	SMD	H11L2SVM-ND	.86	.72	.58		
7500	10.0	5	15V	DIP	H11L2TM-ND	.86	.72	.58			
7500	10.0	5	15V	DIP	H11L2TVM-ND	.86	.72	.58			
7500	10.0	5	15V	DIP	H11L2VM-ND	.86	.72	.58			
7500	60	5	15V	DIP	H11L3M-ND	.90	.75	.60			

* For Tape and Reel change CT-ND to TR-ND. † VDE approval

Fig.	Iso. Volt.	Max. Prop. Delay (nS)	Typ. CMR V/μsec.	I _F (mA)	Pkg. Type	Digi-Key Part No.	Price Each	1	10	100
9	2500	75	10,000	5	DIP	HCLP2601QT-ND	1.25	1.01	.76	
	2500	75	10,000	5	DIP	HCLP2611-ND	1.43	1.15	.86	
10	2500	75	10,000	5	DIP	HCLP2630QT-ND	2.33	1.86	1.40	
	2500	75	10,000	5	DIP	HCLP2631QT-ND	2.25	1.81	1.41	
9	2500	75	10,000	5	DIP	6N137QT-ND	1.16	.97	.78	

Fig.	Isolation Voltage	BV _{CEO} (Min.)	Typ. I _{on} /I _{off} (μsec.)	Pkg. Type	Digi-Key Part No.	Price Each	1	10	100
11	2500	5V	1/1	DIP	MID400-ND	2.75	2.21	1.72	

FET Outputs

Fig.	Isolation Voltage	R _{ds On} (ohm)	V _{br} (Min.)	Typ. I _{on} /I _{off} (μs)	Pkg. Type	Digi-Key Part No.	Price Each	1	10	100
1	5300	200	30	25/25	DIP	H11F1-ND	2.25	1.81	1.36	
	5300	330	30	25/25	DIP	H11F2-ND	2.25	1.81	1.36	
	5300	470	15	25/25	DIP	H11F3-ND	1.97	1.58	1.19	

LITEON Optoisolators

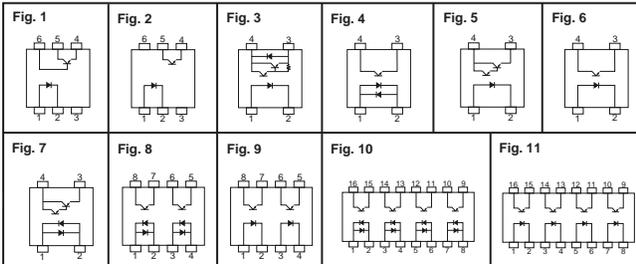
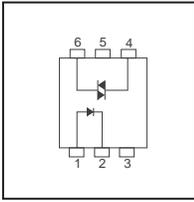


Fig.	Isolation Volt.	Current Transfer Ratio Min.	Current Transfer Ratio Max.	V _{CEO} (Max.)	Typ. I _{on} /I _{off} (μsec.)	Pkg. Type	Digi-Key Part No.	Price Each	1	10	100	Lite-On Part No.	
1	2500	20%	-	30	3.0/3.0	DIP	160-1300-5-ND	.44	.33	.25		4N25	
	2500	20%	-	30	3.0/3.0	SMT	160-1301-5-ND	.50	.38	.29		4N25S	
	1500	20%	-	30	3.0/3.0	DIP	160-1302-5-ND	.44	.33	.25		4N26	
	1500	20%	-	30	3.0/3.0	SMT	160-1303-5-ND	.50	.38	.29		4N26S	
	3550	100%	-	30	3.0/3.0	SMT	160-1304-5-ND	.44	.33	.25		4N35S	
1	1500	100%	-	30	3.0/3.0	DIP	160-1305-5-ND	.50	.38	.29		4N35S	
	1500	100%	-	30	3.0/3.0	DIP	160-1306-5-ND	.44	.33	.25		4N37	
	1500	100%	-	30	3.0/3.0	SMT	160-1307-5-ND	.50	.38	.29		4N37S	
	5000	40%	80%	70	5.0/5.0	DIP	160-1308-5-ND	.44	.33	.25		CNY17-1	
	5000	40%	80%	70	5.0/5.0	SMT	160-1309-5-ND	.50	.38	.29		CNY17-1S	
1	5000	63%	125%	70	5.0/5.0	DIP	160-1310-5-ND	.44	.33	.25		CNY17-2	
	5000	63%	125%	70	5.0/5.0	SMT	160-1311-5-ND	.50	.38	.29		CNY17-2S	
	5000	100%	200%	70	5.0/5.0	DIP	160-1312-5-ND	.44	.33	.25		CNY17-3	
	5000	100%	200%	70	5.0/5.0	SMT	160-1313-5-ND	.50	.38	.29		CNY17-3S	
	5000	160%	320%	70	5.0/5.0	DIP	160-1314-5-ND	.44	.33	.25		CNY17-4	
1	5000	160%	320%	70	5.0/5.0	SMT	160-1315-5-ND	.50	.38	.29		CNY17-4S	
	5000	40%	80%	70	5.0/5.0	DIP	160-1316-5-ND	.44	.33	.25		CNY17F-1	
	5000	40%	80%	70	5.0/5.0	SMT	160-1317-5-ND	.50	.38	.29		CNY17F-1S	
	2	5000	63%	125%	70	5.0/5.0	DIP	160-1318-5-ND	.44	.33	.25		CNY17F-2
	2	5000	63%	125%	70	5.0/5.0	SMT	160-1319-5-ND	.50	.38	.29		CNY17F-2S
2	5000	100%	200%	70	5.0/5.0	DIP	160-1320-5-ND	.44	.33	.25		CNY17F-3	
	5000	100%	200%	70	5.0/5.0	SMT	160-1321-5-ND	.50	.38	.29		CNY17F-3S	
	2	5000	160%	320%	70	5.0/5.0	DIP	160-1322-5-ND	.44	.33	.25		CNY17F-4
	2	5000	160%	320%	70	5.0/5.0	SMT	160-1323-5-ND	.50	.38	.29		CNY17F-4S
	1	5000	50%	-	30	2.8/4.5	DIP	160-1324-5-ND	.54	.41	.31		H11A1

Fig.	Isolation Volt.	Current Transfer Ratio Min.	Current Transfer Ratio Max.	V _{CEO} (Max.)	Typ. I _{on} /I _{off} (μsec.)	Pkg. Type	Digi-Key Part No.	Price Each	1	10	100	Lite-On Part No.	
1	5000	50%	-	30	2.8/4.5	SMT	160-1325-5-ND	.60	.45	.34		H11A1S	
	5000	20%	-	30	2.8/4.5	DIP	160-1326-5-ND	.54	.41	.31		H11A2	
	5000	20%	-	30	2.8/4.5	SMT	160-1327-5-ND	.60	.45	.34		H11A2S	
	5000	20%	-	300	5.0/5.0	DIP	160-1328-5-ND	.87	.66	.49		H11D1	
	5000	20%	-	300	5.0/5.0	SMT	160-1329-5-ND	.93	.70	.53		H11D1S	
3	3750	1000%	-	300	100/20	SMT	160-1331-1-ND	.64	.53	.43		LTV-352T	
	3750	1000%	-	300	100/20	SMT	160-1331-2-ND*	238.50/750				LTV-352T	
	4	3750	20%	400%	35	4.0/3.0	SMT	160-1333-1-ND	.44	.37	.29		LTV-354T
	4	3750	20%	400%	35	4.0/3.0	SMT	160-1333-2-ND*	163.13/750				LTV-354T
	5	3750	600%	7500%	35	60/53	SMT	160-1335-1-ND	.44	.37	.29		LTV-355T
5	3750	600%	7500%	35	60/53	SMT	160-1335-2-ND*	163.13/750				LTV-355T	
	6	3750	50%	600%	80	4.0/3.0	SMT	160-1337-1-ND	.35	.30	.24		LTV-356T
	6	3750	50%	600%	80	4.0/3.0	SMT	160-1337-2-ND*	132.75/750				LTV-356T
	6	3750	50%	600%	35	4.0/3.0	SMT	160-1339-1-ND	.35	.30	.24		LTV-357T
	6	3750	50%	600%	35	4.0/3.0	SMT	160-1339-2-ND*	132.75/750				LTV-357T
2	5000	40%	320%	70	2.0/2.0	DIP	160-1340-5-ND	.86	.65	.49		LTV-702F	
	2	5000	40%	320%	70	2.0/2.0	SMT	160-1341-5-ND	.92	.69	.52		LTV-702FS
	1	5000	40%	320%	70	2.0/2.0	DIP	160-1342-5-ND	.80	.60	.45		LTV-702V
	1	5000	40%	320%	70	2.0/2.0	SMT	160-1343-5-ND	.86				

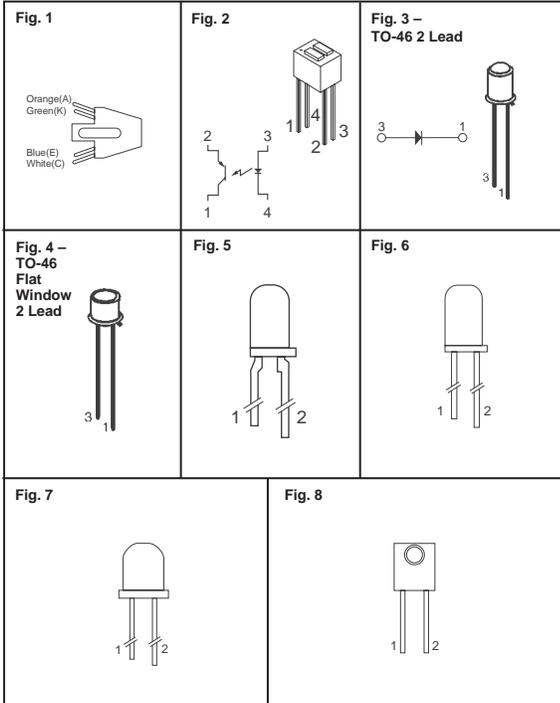
LITEON Triac Output Optoisolators



Isolation Voltage	Max. IF Trigger (mA)	Min. Blocking Voltage	Max. IR (μA)	Package Type	Digi-Key Part No.	Price Each			Lite-On Part No.
						1	10	100	
5000	30	400V	10	DIP	160-1372-5-ND	.66	.50	.38	MOC3020
5000	30	400V	10	SMT	160-1373-5-ND	.70	.53	.40	MOC3020S
5000	15	400V	10	DIP	160-1374-5-ND	.66	.50	.38	MOC3021
5000	15	400V	10	SMT	160-1375-5-ND	.70	.53	.40	MOC3021S
5000	10	400V	10	DIP	160-1376-5-ND	.66	.50	.38	MOC3022
5000	10	400V	10	SMT	160-1377-5-ND	.70	.53	.40	MOC3022S
5000	5	400V	10	DIP	160-1378-5-ND	.70	.53	.40	MOC3023
5000	5	400V	10	SMT	160-1379-5-ND	.74	.56	.42	MOC3023S

FAIRCHILD SEMICONDUCTOR

Infrared Photosensors and Emitters



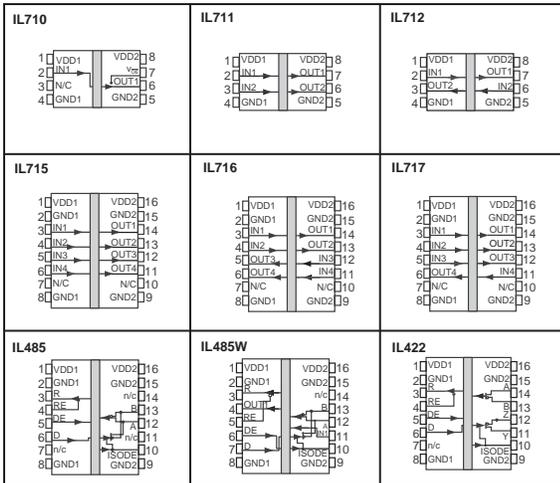
Reflective Photosensors

Fig.	Output Type	Min/Max Output Ic @ If	Optimum Sensing Distance	Termination	Digi-Key Part No.	Price Each			
						1	10	100	500
1	Transistor	.6/3 @ 40mA	3.81mm	Leads	QRB1114-ND	1.29	1.08	.86	.61
1	Transistor	.6/3 @ 40mA	3.81mm	Wires	QRB1134-ND	1.86	1.49	1.12	1.01
2	Transistor	1/5 @ 20mA	1.27mm	Leads	QRD1114-ND	.90	.75	.60	.42

Semiconductor Infrared Emitters (IRED LEDs)

Fig.	For. Volt. (V)	Max. Forward Current (mA)	Min. Power Output	Beam Angle +/-	Peak Wave-Length (nm)	Pkg. Type	Digi-Key Part No.	Price Each			
								1	10	100	500
3	1.7	100	6.0mW/sr	8	940	TO-46	1N6264-ND	1.79	1.43	1.08	.97
4	1.7	100	6.0mW	40	940	TO-46	1N6265-ND	1.75	1.41	1.06	.95
3	1.7	100	25.0mW/sr	10	940	TO-46	1N6266-ND	2.33	1.86	1.40	1.26
3	1.7	100	5.4mW	10	940	TO-46	CQX14-ND	1.86	1.49	1.12	1.01
4	1.7	100	5.4mW	40	940	TO-46	CQX15-ND	1.82	1.46	1.10	.99
3	1.7	100	12.0mW	10	880	TO-46	F5D1-ND	2.04	1.63	1.23	1.11
3	1.7	100	9.0mW	10	880	TO-46	F5D2-ND	1.97	1.58	1.19	1.07
3	1.7	100	10.5mW	10	880	TO-46	F5D3-ND	2.00	1.61	1.21	1.09
4	1.7	100	12.0mW	40	880	TO-46	F5E1-ND	2.04	1.63	1.23	1.11
4	1.7	100	10.5mW	40	880	TO-46	F5E3-ND	2.00	1.61	1.21	1.09
3	1.7	100	1.5mW/sr	10	940	TO-46	LED56-ND	1.79	1.43	1.08	.97
4	1.7	100	3.5mW/sr	40	940	TO-46	LED55BF-ND	1.79	1.43	1.08	.97
3	1.7	100	3.5mW/sr	10	940	TO-46	LED55B-ND	1.82	1.46	1.10	.99
3	1.7	100	5.4mW/sr	8	940	TO-46	LED55C-ND	1.86	1.49	1.12	1.01
5	1.7	50	14mW/sr	8	940	T-1	QEC113-ND	.47	.38	.28	.16
5	1.7	50	27mW/sr	8	880	T-1	QEC122-ND	.52	.39	.30	.19
6	1.5	100	80mW/sr	9	880	T-1 3/4	QED123-ND	.57	.43	.33	.21
6	1.7	100	16mW/sr	20	880	T-1 3/4	QED222-ND	.52	.39	.30	.19
6	1.7	100	25mW/sr	20	880	T-1 3/4	QED223-ND	.57	.43	.33	.21
6	1.5	100	10mW/sr	20	940	T-1 3/4	QED233-ND	.43	.35	.26	.15
6	1.5	100	27mW/sr	20	940	T-1 3/4	QED234-ND	.47	.38	.28	.16
7	1.7	100	18mW/sr	30	880	Plastic TO-46	QED423-ND	.57	.43	.33	.21
7	1.7	100	20mW/sr	15	880	Plastic TO-46	QED522-ND	.52	.39	.30	.19
7	1.7	100	40mW/sr	15	880	Plastic TO-46	QED523-ND	.57	.43	.33	.21
8	1.5	50	3mW/sr	25	940	SIDELOOK	QEE113-ND	.47	.38	.28	.16
8	1.7	50	8mW/sr	25	880	SIDELOOK	QEE123-ND	.52	.39	.30	.19

NVE IsoLoop® High Performance Digital Isolators



IsoLoop® digital isolators from NVE are superior performance alternatives to traditional opto-couplers or optoisolators. These highly integrated devices deliver up to 100MBd of data per channel with only 2ns Pulse Width Distortion. They are available in single, dual and quad channel form factors. IsoLoop® bus isolators offer the designer highly compact, isolated RS 485 and RS 422 compliant devices. These high-speed products are ideal for many industrial communication applications, including PROFIBUS.

Features:
IL710, IL711, and IL712: • 100 Mbaud Data Rate • 2ns Pulse Width Distortion • 10ns Propagation Delay • 20kV/ms Transient Immunity • 2500 Vrms (1min.) • Dip & SOIC Package
IL715, IL716 and IL717: • 100 Mbaud Data Rate • 2ns Pulse Width Distortion • 10ns Propagation Delay • 20kV/ms Transient Immunity • 2500 Vrms (1min.) • Wide Body SOIC Package
IL422: • 2500 Vrms Isolation (1 min.) • 25ns Propagation Delay • 25 Mbaud Data Rate • 1 ns Skew • ±60 mA Driver Output Capability • Thermal Shutdown Protection • Meets or Exceeds EIA 422-B, EIA 485-A and ITU Recommendation VII • 16 Pin SOIC Package • UL 1577 Approval (pending)
IL485/IL485W: • 35 Mbaud Data Rate • 25ns Propagation Delay • 2500 Vrms Isolation (1 min.) • Wide Body SOIC Package- 20kV/ms Transient Immunity

Supply Voltage	Package Type	Temperature Range	Digi-Key Part No.	Price Each				NVE Part No.
				1	10	25	100	
3.3/5.0V	8-Dip	-40°C to +100°C	390-1003-ND	3.40	3.15	2.74	2.36	IL710-2
3.3/5.0V	8-SOIC	-40°C to +100°C	390-1004-ND	3.40	3.15	2.74	2.36	IL710-3
3.3/5.0V	8-Dip	-40°C to +100°C	390-1005-ND	5.78	5.35	4.66	4.01	IL711-2
3.3/5.0V	8-SOIC	-40°C to +100°C	390-1006-ND	5.78	5.35	4.66	4.01	IL711-3
3.3/5.0V	8-Dip	-40°C to +100°C	390-1007-ND	5.78	5.35	4.66	4.01	IL712-2
3.3/5.0V	8-SOIC	-40°C to +100°C	390-1008-ND	5.78	5.35	4.66	4.01	IL712-3
3.3/5.0V	16-SOICW	-40°C to +100°C	390-1009-ND	7.46	6.91	6.02	5.18	IL715
3.3/5.0V	16-SOICW	-40°C to +100°C	390-1010-ND	7.46	6.91	6.02	5.18	IL716
3.3/5.0V	16-SOICW	-40°C to +100°C	390-1011-ND	7.46	6.91	6.02	5.18	IL717
3.3/5.0V	16-SOIC	-40°C to +85°C	390-1012-ND	7.46	6.91	6.02	5.18	IL715-3
3.3/5.0V	16-SOIC	-40°C to +85°C	390-1013-ND	7.46	6.91	6.02	5.18	IL716-3
3.3/5.0V	16-SOIC	-40°C to +85°C	390-1014-ND	7.46	6.91	6.02	5.18	IL717-3
5.0V	16-SOICW	-40°C to +85°C	390-1000-ND	8.66	8.02	6.98	6.01	IL422
5.0V	16-SOICW	-40°C to +85°C	390-1001-ND	8.42	7.79	6.79	5.85	IL485
5.0V	16-SOICW	-40°C to +85°C	390-1002-ND	8.90	8.24	7.18	6.18	IL485W

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