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ALCOSWITCH
LED INDICATOR LIGHT AND BUZZER

INTRODUCTION

TE Connectivity (TE)'s new ALCOSWITCH ILE (Indicator Light) and IBE (Buzzer) Indicators are class leading LED and audible devices. The ILE Indicators have dual LEDs with uniform and bright illumination. There is a broad voltage range for various applications. The IBE buzzers have 80 db of audible output making a clear and loud notification. Both series have an operating life of over 1 million cycles and can go into harsh environments with their IP65 rating.



INDICATOR LIGHT

FEATURES

- Low voltage glow protection
- >1M cycles of actuation
- 80 db output for buzzers
- IP65 outside of panel, IP20 inside
- Passes surge test of 2 KV



BUZZER

APPLICATIONS

- Control panel
- Safety monitoring
- Battery energy storage system (BESS)
- Manufacturing lines

APPROVALS

- UL
- CE
- RoHS

RoHS

ALCOSWITCH LED Indicator Light and Buzzer

ELECTRICAL SPECIFICATIONS

	ILE (Indicator Light)	IBE (Buzzer)
Rated voltage	12 V AC/DC, 24 V AC/DC, 48 V AC/DC, 110 VAC, 240 VAC, 415 VAC, 110 VDC, 220 VDC	240 VAC, 24 V AC/DC, 12 V AC/DC
Limit of operating voltage	-20% ~ +10% of rated voltage	-
Operating current	-	3 mA ~ 50 mA
LED's	2 SMD LEDS	-
Surge	2 KV	1 KV (L-L)
HV test for 60 sec.	2.5 KV	-
Low voltage glow protection	Provided at 20% to 30% rated voltage, No LVGP for 12 V AC/DC	-
Power consumption (24V/110V/240V)	< 0.6 W	≤ 2 W
Operating frequency	50 Hz - 60 Hz	-
Insulation resistance	> 1 M ohm	-

ENVIRONMENTAL CHARACTERISTICS

Operating temperature	-30 °C ~ 65 °C	-10 °C ~ 65 °C
Storage temperature	-25 °C ~ 70 °C	-10 °C ~ 65 °C
Degree Of protection	Above panel : IP65 -IEC60529 : 2013	-
	For terminals : IP20 -IEC60529 : 2013	

MECHANICAL SPECIFICATIONS

Life	10K burning Hrs. (at ambient temp 30 °C)	>10K burning Hrs.
Contact material	Base Material: Brass, Plating: TIN	
Wire termination capacity	Min 0.5 mm^2, 1.5 mm^2 ~ 2.5 mm^2.	0.5 mm^2 ~ 2.5 mm^2
Terminal Torque	0.8 Nm	

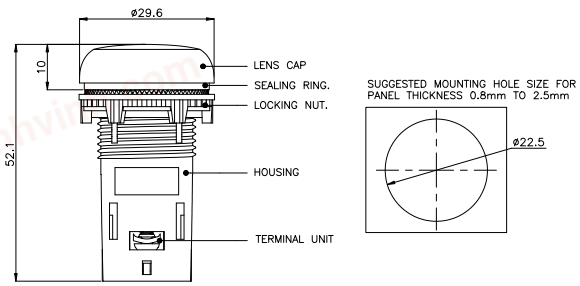
OTHER DATA

Colours available	White / Green / Blue Orange / Red / Yellow	-
Visible from the distance	5 meter	-
SPL (sound pressure level)	-	80 db @ 1 mtr
Sound mode	-	Continuous

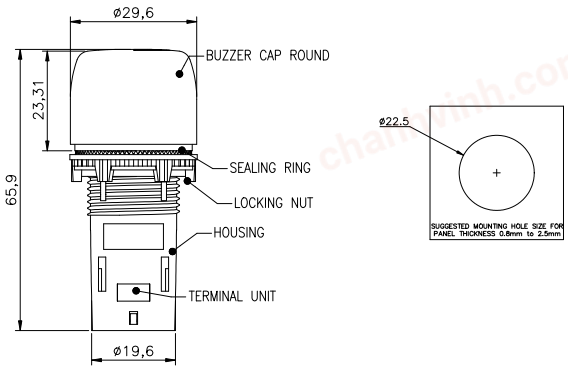
ALCOSWITCH LED Indicator Light and Buzzer

DIMENSIONS (Unit: mm)

INDICATOR LIGHT



BUZZER



PRODUCT CODE STRUCTURE

Product Key

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Series

ILE	Indicator Light
IBE	Buzzer

Panel cutout

22	22.5 mm

Voltage

12	12 V AC/DC*
24	24 V AC/DC*
24VD	24 V-240 V AC/DC
48	48 V AC/DC
110A	110 VAC
110D	110 VDC
220	220 VDC
240	240 VAC*
415	415 VAC

Terminal Style

S	Screw

LED color

Blank	No LED (Buzzers)
W	White
R	Red
Y	Yellow
G	Green
O	Orange
B	Blue

*Buzzer options

ALCOSWITCH LED Indicator Light and Buzzer

LED INDICATOR PRODUCT INFORMATION

Product key	Description	LED color	Part number
ILE2212RS	LED indicator red 12 V AC/DC	Red	2489541-1
ILE2212GS	LED indicator green 12 V AC/DC	Green	2489541-2
ILE2212YS	LED indicator yellow 12 V AC/DC	Yellow	2489541-3
ILE2212OS	LED indicator orange 12 V AC/DC	Orange	2489541-4
ILE2212WS	LED indicator white 12 V AC/DC	White	2489541-5
ILE2212BS	LED indicator blue 12 V AC/DC	Blue	2489541-6
ILE2224RS	LED indicator red 24 V AC/DC	Red	2489541-7
ILE2224GS	LED indicator green 24 V AC/DC	Green	2489541-8
ILE2224YS	LED indicator yellow 24 V AC/DC	Yellow	2489541-9
ILE2224OS	LED indicator orange 24 V AC/DC	Orange	1-2489541-0
ILE2224WS	LED indicator white 24 V AC/DC	White	1-2489541-1
ILE2224BS	LED indicator blue 24 V AC/DC	Blue	1-2489541-2
ILE2248RS	LED indicator red 48 V AC/DC	Red	1-2489541-3
ILE2248GS	LED indicator green 48 V AC/DC	Green	1-2489541-4
ILE2248YS	LED indicator yellow 48 V AC/DC	Yellow	1-2489541-5
ILE2248OS	LED indicator orange 48 V AC/DC	Orange	1-2489541-6
ILE2248WS	LED indicator white 48 V AC/DC	White	1-2489541-7
ILE2248BS	LED indicator blue 48 V AC/DC	Blue	1-2489541-8
ILE2224VDRS	LED indicator red 24 V-240 V AC/DC	Red	1-2489541-9
ILE2224VDGS	LED indicator green 24 V-240 V AC/DC	Green	2-2489541-0
ILE2224VDYS	LED indicator yellow 24 V-240 V AC/DC	Yellow	2-2489541-1
ILE2224VDBS	LED indicator blue 24 V-240 V AC/DC	Blue	2-2489541-2
ILE2224VDWS	LED indicator white 24 V-240 V AC/DC	White	2-2489541-3
ILE2224VDOS	LED indicator orange 24 V-240 V AC/DC	Orange	2-2489541-4
ILE22110ARS	LED indicator 110 RED 110 V AC	Red	2-2489541-5
ILE22110AGS	LED indicator 110 GREEN 110 VAC	Green	2-2489541-6
ILE22110AYS	LED indicator 110 YELLOW 110 VAC	Yellow	2-2489541-7
ILE22110AOS	LED indicator 110 ORANGE 110 VAC	Orange	2-2489541-8
ILE22110AWS	LED indicator 110 WHITE 110 VAC	White	2-2489541-9
ILE22110ABS	LED indicator 110 BLUE 110 VAC	Blue	3-2489541-0
ILE22240RS	LED indicator 240 RED 240 VAC	Red	3-2489541-1
ILE22240GS	LED indicator 240 GREEN 240 VAC	Green	3-2489541-2
ILE22240YS	LED indicator 240 YELLOW 240 VAC	Yellow	3-2489541-3
ILE22240OS	LED indicator 240 ORANGE 240 VAC	Orange	3-2489541-4
ILE22240WS	LED indicator 240 WHITE 240 VAC	White	3-2489541-5
ILE22240BS	LED indicator 240 BLUE 240 VAC	Blue	3-2489541-6
ILE22415RS	LED indicator 415 RED 415 VAC	Red	3-2489541-7

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TE Smart Part Number	Description	LED color	Part number
ILE22415GS	LED indicator 415 GREEN 415 VAC	Green	3-2489541-8
ILE22415YS	LED indicator 415 YELLOW 415 VAC	Yellow	3-2489541-9
ILE22415OS	LED indicator 415 ORANGE 415 VAC	Orange	4-2489541-0
ILE22415WS	LED indicator 415 WHITE 415 VAC	White	4-2489541-1
ILE22415BS	LED indicator 415 BLUE 415 VAC	Blue	4-2489541-2
ILE22110DRS	LED indicator 110 RED 110 VDC	Red	4-2489541-3
ILE22110DGS	LED indicator 110 GREEN 110 VDC	Green	4-2489541-4
ILE22110DYS	LED indicator 110 YELLOW 110 VDC	Yellow	4-2489541-5
ILE22110DOS	LED indicator 110 ORANGE 110 VDC	Orange	4-2489541-6
ILE22110DWS	LED indicator 110 WHITE 110 VDC	White	4-2489541-7
ILE22110DBS	LED indicator 110 BLUE 110 VDC	Blue	4-2489541-8
ILE22220RS	LED indicator 220 RED 220 VDC	Red	4-2489541-9
ILE22220GS	LED indicator 220 GREEN 220 VDC	Green	5-2489541-0
ILE22220YS	LED indicator 220 YELLOW 220 VDC	Yellow	5-2489541-1
ILE22220OS	LED indicator 220 ORANGE 220 VDC	Orange	5-2489541-2
ILE22220WS	LED indicator 220 WHITE 220 VDC	White	5-2489541-3
ILE22220BS	LED indicator 220 BLUE 220 VDC	Blue	5-2489541-4

BUZZER PRODUCT INFORMATION

TE Smart Part Number	Description	LED color	Part number
IBE2212S	Buzzer 12 V AC/DC	No LED	2489542-1
IBE2224S	Buzzer 24 V AC/DC	No LED	2489542-2
IBE22240S	Buzzer 240 VAC	No LED	2489542-3

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