



# ESIL

100% Safe and Ruggedized monitor for High-Voltage safety Loop

## FEATURES

- Designed following intrinsic safety rules
- For High Voltage application up to 650V
- Local or Remote activation, Re-arm button
- Unidirectional Interlock System
- Protection against HV Faults
- Protection against Short-circuit to Ground
- Communication CAN bus 2.0B
- Dimensions 137x80x55mm, Weight 400g

## APPLICATIONS

- Electrical vehicles (car, truck, bus)
- Inverter, Converter, Battery, FCS, HV networks



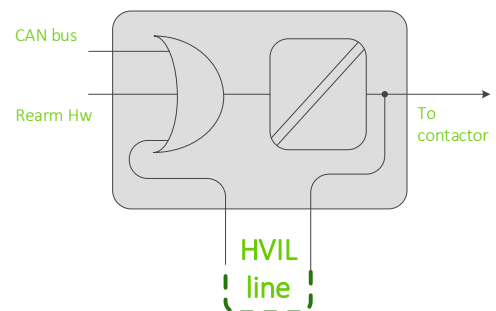
## ELECTRICAL CHARACTERISTICS @ 25°C to 70°C

Power Supply	9V to 36V (4W)
Interlock circuit current	52mA (typical)
HVIL line impedance	100 ohms (maximum)
Protections	Against HV voltage & CC to ground
Isolation	Up to 4000m, Test 60 seconds 10 GΩ
CAN bus speed	Up to 1,000 Kbits/s (every 100ms)
Op. and St. T°C	-25..70°C

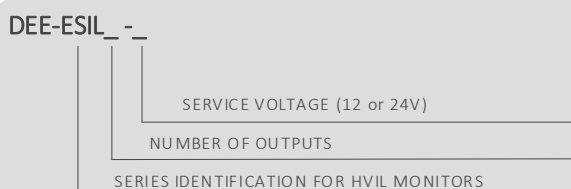
## Standards used Only for design

Safety	IEC 61508-2, EN NF 50129
Isolation	IEC60664-1, NF EN 62477-1
Ingress Protection	IP67
EMC / EMI	ECE R10, EN55022
MTBF	> 250,000 hours

1	+24V
2	GND_24V
9	Command Contactor +
3	GND_24V
5	HVIL+
14	HVIL-
8	Auxiliary Contactor +
7	Auxiliary Contactor -
10	CANH
11	CANL
13	Wired Enable



ORDERING



## Controls and Interfaces

Box connector (776267-5): To use with plug 776273-x

Box fixation : Screw 3M or Rail DIN

Delivered with 1-meter mating plug