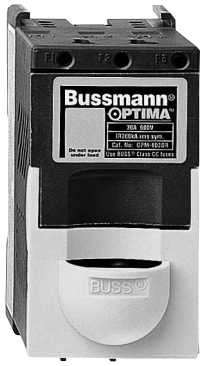
OPTIMA™
Overcurrent Protection Module
for 13/32″ × 1½″ (10mm × 38mm) Fuses

OPM-1038
Non-Switch Series



Catalog Symbol: OPM-1038_ _
Materials: Grey Thermoplastic
U.L. Flammability: U.L. 94 VO
Temperature Rating (RTI): 130°C
Agency Approvals:
U.L. - see table below
CSA Certified: C22.2 No. 39, Class 6225-01, File 47235
IEC - see table below
Shipping Weight: Approx. 213g (.47 lb.)
Carton Quantity: 1

Physical Characteristics:
- Small size matches 45mm IEC starter width.
- Fits #8-18 AWG stranded wire, #10-18 AWG solid wire.
- 3-pole version.

Product Features:
- "Open" fuse indication lights.
- Cam action handle for easy removal.
- Finger safe terminals. (Qualified as IP2O per IEC529)
- Removable module for convenient fuse loading.
- 35mm DIN-rail or screw panel mounting (#8 screw, 1¼″ long).
- Dead front construction.
- Padlockable for lock-out, tag-out requirements.

Additional Features:
- Option for remote "open fuse" status indication feature available (less down-time).
- Offered with Class CC rejection clips or European 10mm × 38mm clips to meet global needs.
- Wire ready: Saves time as terminals are ready to accept wires.

Catalog Number	Electrical Rating	SC Rating	Clips	Remote Open Fuse Indication	U.L. Information			IEC
					Std.	File	Guide	
OPM-1038	30A, 600V U.L./CSA** 32A, 660V IEC	*	Non-rejection	No	Recognized U.L. 512	E14853	IZLT2	IEC 269-2-1
OPM-1038R	30A, 600V U.L./CSA**	200kA	Rejection	No	Listed U.L. 512	E14853	IZLT	
OPM-1038C	30A, 600V U.L./CSA** 32A, 660V IEC	*	Non-rejection	Yes	Recognized U.L. 512	E14853	IZLT2	IEC 269-2-1
OPM-1038RC	30A, 600V U.L./CSA**	200kA	Rejection	Yes	Listed U.L. 512	E14853	IZLT	

*Rating varies depending on fuse used in module.
**DC Voltage Rating: 600V U.L./CSA

Recommended Fuse Types:

Class CC	Midget (non-rejection)
LP-CC	KTK
KTK-R	FNM
FNQ-R	FNQ

CE CE logo denotes compliance with European Union Low Voltage Directive (50-1000 Vac, 75-1500 Vdc). Refer to BIF document #8002 or contact Bussmann Application Engineering at 314-527-1270 for more information. Applies to OPM-1038 and OPM-1038R.

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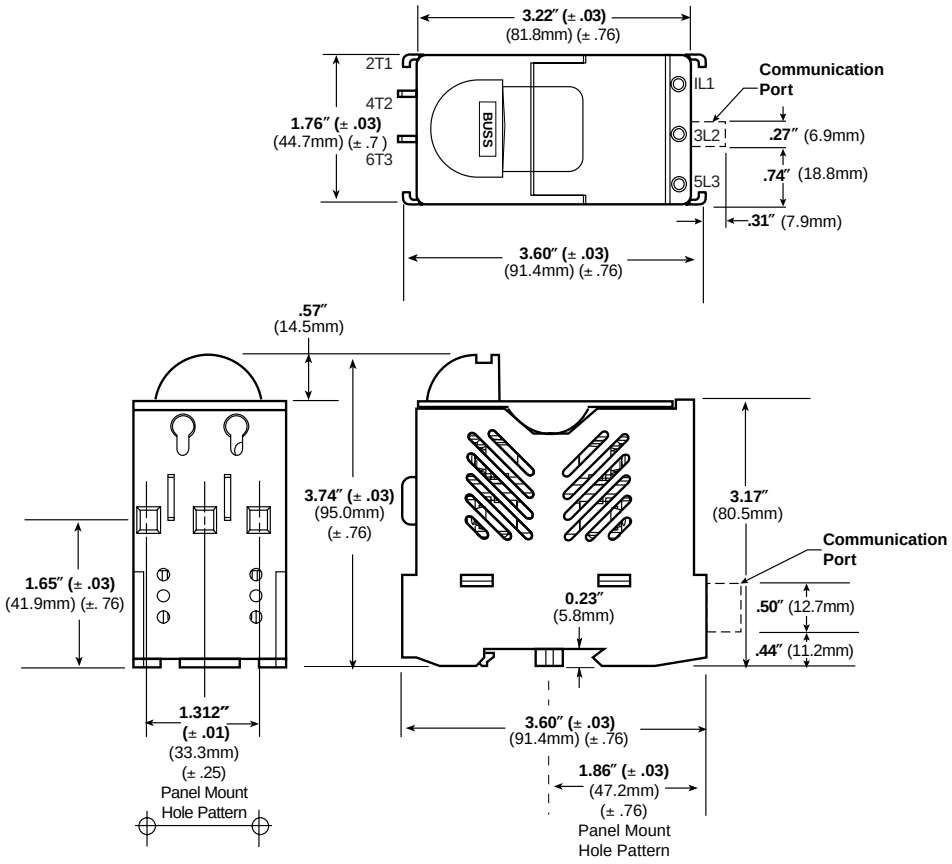
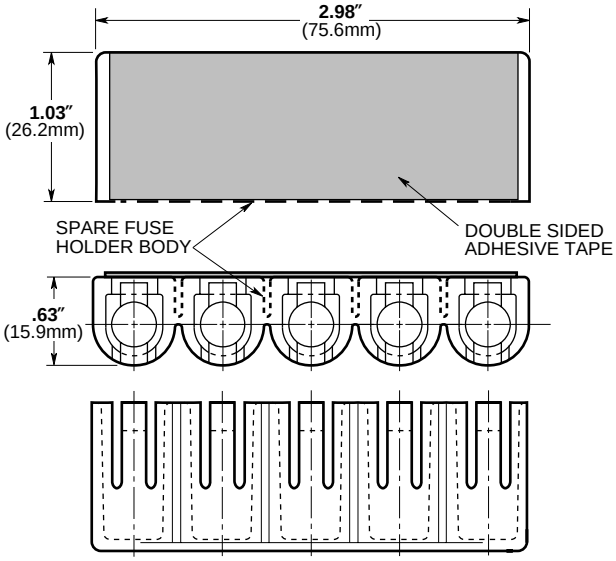
Dimensional Data



Spare Fuseholder: Part No. 5TPH



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OPEN FUSE INDICATION

Status Output Specifications:
*Minimum operating voltage: 460 Vac, 3-phase
*Maximum operating voltage: 620 Vac, 3-phase
Status output maximum conducting current: 40mA
Status output maximum on resistance: 35 ohms @ 40mA
Status output typical off resistance: >10 Mohm
Status output maximum turn-on and turn-off delay: 850 milli-second

Status Output Interface Specifications:
Rated Voltage: Recommended 5-35 Vdc, 300 Vac max.
Rated Current: 40mA max.
Wire Size: #28-14 AWG
Torque: 2.25 lb. in.

Open Fuse Indicator Status Output Description:
The open fuse indicator status output acts very much like an on/off switch. With all three fuses in place and operating properly, this status output has a high resistance value of greater than ten mega-ohms. When one or more of the fuses are open, the status output becomes turned-on with a resistance value less than 35 ohms. This status output withstands voltage (AC or DC) up to 35 volts at off-state and conducts current up to 40 milli-amps at on-state. Applying voltage and current exceeding these limits will result in damage to the components inside this status output device permanently. There is some time-delay when the status output changes on/off state. The open fuse communications or status output device includes optical isolators within the unit.

Communications output states:

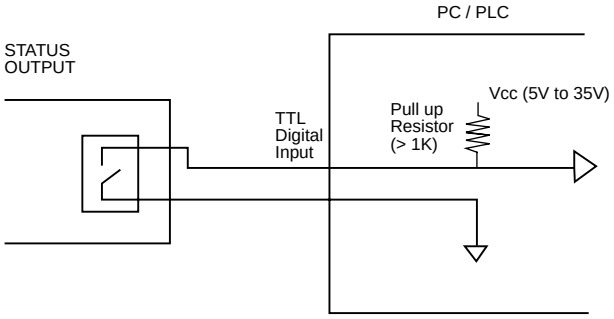
Fuse Good	NO - High Resistance, >10 mega-ohms
Opened Fuse	NC - Low Resistance, < 35 ohms

Note: Operating this device beyond the above limits will cause permanent damage to the components on the board.

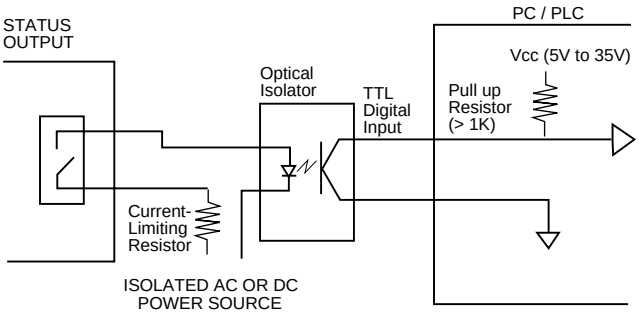
For applications requiring status output below a system voltage of 460V, contact Bussmann.

The examples shown below illustrate typical interface to Programmable Logic Controllers.

EXAMPLE 1: **DIRECT INTERFACE TO PC/PLC**



EXAMPLE 2: **INTERFACE TO PC / PLC WITH OPTICAL ISOLATION**



Note: When energized, a low load terminal voltage will be present when fuses are open or when pullout module is removed. The leakage current is limited to .5mA maximum.

Example of Output Voltage with three open fuses or pullout module removed.

Catalog Number Type of Indication	OPM-1038, OPM-1038R Standard	OPM-1038C, OPM-1038RC Communication
System Voltage (1L1-3L2-5L3)	Load Terminal Voltage (2T1-4T2-6T3)	
125 Vdc * 480 Vac, 3-phase 600 Vac, 3-phase	12 Vdc * 26 Vac 33 Vac	31 Vdc * 56 Vac 88 Vac

*The communication device requires a minimum circuit voltage (1L1-3L2-5L3) of 460 volts for the status indicating device to operate. Below 460 volts, but above 120 volts the indicator lights will luminate, but there will not be any communication status output.