

INTRODUCTION

This document is a list of Opto 22 part numbers that have the Factory Mutual (FM) approval.

All parts listed in this document meet the requirements for use in a Class I, Division 2 area without external intrinsic safety barriers.

Definition

Class I, Division 2 locations are those in which hazardous concentrations of flammables exist only under unlikely conditions of operation. As such, equipment and associated wiring which are incapable of releasing sufficient electrical and thermal energy to ignite flammable gases or vapors under "normal" operation and environmental conditions are safe to use in Class I, Division 2 (group A, B, C, or D) locations. Equipment of this type is called "nonincendive" and needs no special enclosure or other physical safeguard.

<p>Class I, Div 1 All equipment in this area must be rated for Intrinsic Safety. Opto 22 does not manufacture any Intrinsically Safe components.</p>	<p>Class I, Div 2 Atmosphere in this area is normally safe but occasionally explosive. Equipment in this area must be rated for Class I, Div 2 and equipment must be protected from accidental damage but otherwise needs only a normal cabinet for protection.</p>	<p>Safe Area No special installation requirements for equipment in this area.</p>
---	--	--

The Opto 22 products listed in this document are in compliance with the applicable requirements of the following standards:

Title	FMRC No.
Electrical Equipment for Use in Hazardous (Classified) Locations, General Requirements	Class No. 3600
Electrical Equipment for Use in Class I, Division 2, Class II, Division 2, and Class III, Division 1 and 2 Hazardous Locations	Class No. 3611
Electrical and Electronic Test, Measuring, and Process Control Equipment	Class No. 3810

LIST OF APPROVED PRODUCTS

The FM approval file number is listed next to each approved part number.

Part Number	File Number
B3000-B	3005082
G4AD10	OW3A2.AX
G4AD11	OW3A2.AX
G4AD12	OW3A2.AX
G4AD13	OW3A2.AX
G4AD16	OW3A2.AX
G4AD17	OW3A2.AX
G4AD18	OW3A2.AX
G4AD19	OW3A2.AX
G4AD23	OW3A2.AX
G4AD24	OW3A2.AX
G4AD3	OW3A2.AX
G4AD4	OW3A2.AX
G4AD5	OW3A2.AX
G4AD6	OW3A2.AX
G4AD6HS	OW3A2.AX

Part Number	File Number
G4AD7	OW3A2.AX
G4AD7HS	OW3A2.AX
G4AD8	OW3A2.AX
G4AD9	OW3A2.AX
G4AIVA	1Z3A5.AX
G4BATT32	OW3A2.AX
G4D16R	OW3A2.AX
G4DA3	OW3A2.AX
G4DA4	OW3A2.AX
G4DA5	OW3A2.AX
G4DA6	OW3A2.AX
G4DA7	OW3A2.AX
G4DA8	OW3A2.AX
G4DA9	OW3A2.AX
G4HDAR	1Z3A5.AX
G4IAC5	OW3A2.AX
G4IAC5A	OW3A2.AX
G4IDC5	OW3A2.AX

Part Number	File Number
G4IDC5B	OW3A2.AX
G4IDC5D	OW3A2.AX
G4IDC5G	OW3A2.AX
G4IDC5GM	OW3A2.AX
G4IDC5K	OW3A2.AX
G4IDC5Q	OW3A2.AX
G4IOR	OW3A2.AX
G4OAC5A5FM	OW3A2.AX
G4OAC5AFM	OW3A2.AX
G4OAC5FM	OW3A2.AX
G4ODC5AFM	OW3A2.AX
G4ODC5FM	OW3A2.AX
G4ODC5R5FM	OW3A2.AX
G4ODC5RFM	OW3A2.AX
G4RAX	OW3A2.AX
G4RPANEL	OW3A2.AX
G4TERMR	OW3A2.AX
M4PS125D	1Z3A5.AX

**Also approved by FM Canada

Part Number	File Number
M4PS12D	1Z3A5.AX
M4PS24D	1Z3A5.AX
M4PS48D	1Z3A5.AX
REMOTE CABLE 200	OW3A2.AX
SNAP-AIARMS	3008347
SNAP-AIARMS-i-FM **	3030484
SNAP-AICTD	3008347
SNAP-AICTD-4	3008347
SNAP-AIMA	3008347
SNAP-AIMA-32-FM **	3030484
SNAP-AIMA-4	3008347
SNAP-AIMA-HDB-FM **	3030484
SNAP-AIMA-I **	3008347
SNAP-AIMA-ISRC-FM **	3030484
SNAP-AIMV2-4	3008347
SNAP-AIMV-4	3008347
SNAP-AIR40K-4 **	3008347
SNAP-AIRATE	3008347
SNAP-AIRTD	3008347
SNAP-AITM	3008347
SNAP-AITM-2	3008347
SNAP-AITM2-I	3008347
SNAP-AITM-8-FM **	3030484
SNAP-AITM-I	3005082.00
SNAP-AIV **	3008347
SNAP-AIV-32-FM **	3030484
SNAP-AIV-4	3008347
SNAP-AIV-HDB-FM **	3030484
SNAP-AIV-I **	3026716C
SNAP-AIVRMS	3008347
SNAP-AIVRMS-i-FM **	3030484
SNAP-AOA-23 **	3008347
SNAP-AOA-23iSRC-FM **	3030484
SNAP-AOA-28	3008347
SNAP-AOD-29	3008347
SNAP-AOV-25	3008347
SNAP-AOV-27	3008347
SNAP-B12M	3005082.00
SNAP-B12MC	3015141
SNAP-B12MC-P	3015141

Part Number	File Number
SNAP-B16M	3005082.00
SNAP-B16MC	3015141
SNAP-B16MC-P	3015141
SNAP-B3000-ENET	3005082.00
SNAP-B4M	3005082.00
SNAP-B8M	3005082.00
SNAP-B8MC **	3015141
SNAP-B8MC-P	3015141
SNAP-D64RS	3015141
SNAP-ENET-D64	3015141
SNAP-IAC5AFM	3005082.00
SNAP-IAC5FM	3005082.00
SNAP-IDC32-FM **	3030484
SNAP-IDC5DFM	3005082.00
SNAP-IDC5-FAST	3015141
SNAP-IDC5FM **	3005082.00
SNAP-IDC5Q	3015141
SNAP-IDC5-SW	3015141
SNAP-IDC-HDB-FM **	3030484
SNAP-OAC5FM	3005082.00
SNAP-OAC5-iFM	3005082.00
SNAP-ODC-32-SNK-FM **	3030484
SNAP-ODC-32-SRC-FM **	3030484
SNAP-ODC5A-iFM	3005082.00
SNAP-ODC5-iFM	3005082.00
SNAP-ODC5R5FM	3005082.00
SNAP-ODC5R6FM	3005082.00
SNAP-ODC5SNKFM	3005082.00
SNAP-ODC5SRCFM	3005082.00
SNAP-ODC-HDB-FM **	3030484
SNAP-PAC-EB1-FM **	3030484
SNAP-PAC-EB2-FM **	3030484
SNAP-PAC-R1-B**	3060880
SNAP-PAC-R1-FM **	3030484
SNAP-PAC-R2-FM **	3030484
SNAP-PAC-RCK-12-FM **	3030484
SNAP-PAC-RCK-16-FM **	3030484
SNAP-PAC-RCK4-FM **	3030484
SNAP-PAC-RCK8-FM **	3030484
SNAP-PAC-S1-FM **	3030484

Part Number	File Number
SNAP-PID-V	3015141
SNAP-PS24	3005082.00
SNAP-PS5	3005082.00
SNAP-PS5-24DC	3005082.00
SNAP-SCM-232	3015141
SNAP-SCM-485-422**	3015141
SNAP-STRAP	3005082.00
SNAP-UP1-ADS **	3015141
SNAP-WIRESTRAP	3005082.00

**Also approved by FM Canada