

|   |   |   |   |   |      |         |            |           |                       |
|---|---|---|---|---|------|---------|------------|-----------|-----------------------|
|   | 1 | 2 | 3 | 4 | 5    | 6       | 7          | 8         |                       |
| F |   |   |   |   | REV. | ECN NO. | DATE       | SIGN      | DESCRIPTION           |
|   |   |   |   |   | A    |         | 2019/03/08 | Allen Pan |                       |
|   |   |   |   |   | B    | CI9I68I | 2019/09/24 | Vicky     | Update Wire Tolerance |
| E |   |   |   |   |      |         |            |           |                       |
|   |   |   |   |   |      |         |            |           |                       |
|   |   |   |   |   |      |         |            |           |                       |
| D |   |   |   |   |      |         |            |           |                       |
|   |   |   |   |   |      |         |            |           |                       |
|   |   |   |   |   |      |         |            |           |                       |
| C |   |   |   |   |      |         |            |           |                       |
|   |   |   |   |   |      |         |            |           |                       |
|   |   |   |   |   |      |         |            |           |                       |
| B |   |   |   |   |      |         |            |           |                       |
|   |   |   |   |   |      |         |            |           |                       |
|   |   |   |   |   |      |         |            |           |                       |
| A |   |   |   |   |      |         |            |           |                       |
|   |   |   |   |   |      |         |            |           |                       |
|   |   |   |   |   |      |         |            |           |                       |

Note:

- \* L Important Dimension.
- \* Waterproof Rate: IP68, IP69K.
- \* Connector: Nylon+GF,Black.
- \* Male Pin: Copper Alloy, Gold Plated.
- \* Shield:Zinc Alloy,Nickel Plated.
- \* Screw Nut: Zinc Alloy, Nickel Plated.
- \* Panel O-Ring:Viton,Black.
- \* Wire harness: ULI06I
- \* Rated Voltage: 3 & 4Pin 250V dc. or ac.  
5Pin 60V dc. or ac.  
6~12Pin 30V dc. or ac.
- \* Rated Current: 3~5Pin 4A  
6~8Pin 2A  
10~12Pin 1.5A
- \* Operating Temperature: -25~85°C
- \* For Panel Thickness Max 4.5mm.
- \* Nut Torque:4-6 Kgf.cm.
- \* Wire harness Tolerance: 150~300 ±15mm  
301~1000 ±20mm  
B Over1000 +50/-0mm

(PG9)

(M16\*1.5)

Recommended  
Panel Cut-Out

Recommended  
Panel Cut-Out

ALTW

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2019-09-24

R&D DEPT.

UNIT:mm

TOLERANCE

.X ±0.25

.XX ±0.1

.XXX ±0.05

ANGLES ±1°

TITLE

MI2 A-Code Male Conn.

Panel Front With Wire harness Shielded

SCALE 3:2

SIZE A4

SHEET 1 OF 2

REV. B

WC-REV. A.1

QC:Inspection item

Amphenol LTW

安費諾亮泰企業股份有限公司

ITEM NO

DWG NO

CUSTOMER

MSAS-XXPMMX-SF8XXX

ALTW

DRAWN BY

CHECKED BY

APPROVED BY

Vicky

Rita

Max

DATE

DATE

DATE

2019-09-24

2019-09-24

2019-09-24

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W10814-03-0001A2

|   |                                                                                                                                                                                                                                                                            |                                                         |                                                                                     |                                                                                           |                                                                                                  |                                                                                                                                                |                                                                                                                                                                     |                                                                |                                                                |                                          |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------|
|   | 1                                                                                                                                                                                                                                                                          | 2                                                       | 3                                                                                   | 4                                                                                         | 5                                                                                                | 6                                                                                                                                              | 7                                                                                                                                                                   | 8                                                              |                                                                |                                          |
| F | M SAS - XX P M M X - S F 8 X XX/B                                                                                                                                                                                                                                          |                                                         |                                                                                     |                                                                                           |                                                                                                  | 12P<br>10P<br>8P<br>6P<br>5P<br>4P<br>3P<br>12P<br>10P<br>8P<br>6P<br>5P<br>4P<br>3P                                                           |                                                                                                                                                                     | UL1061                                                         | 26                                                             | MSAS-12PMMS-SF8CXX<br>MSAS-10PMMS-SF8CXX |
|   | SAS:A-Code<br>Shielded<br>03:3Pin<br>04:4Pin<br>05:5Pin<br>06:6Pin<br>08:8Pin<br>10:10Pin<br>12:12Pin<br><br>P:Panel(板端)<br><br>M:Male Connector(公座)<br><br>M:Male Pin(公Pin)<br><br>C:Crimp Type(打端式)<br>S:Solder Type(焊接式)                                                |                                                         |                                                                                     |                                                                                           |                                                                                                  | 24                                                                                                                                             | 24                                                                                                                                                                  |                                                                | MSAS-08PMMS-SF8CXX<br>MSAS-06PMMS-SF8CXX                       |                                          |
|   |                                                                                                                                                                                                                                                                            |                                                         |                                                                                     |                                                                                           |                                                                                                  |                                                                                                                                                | 22                                                                                                                                                                  |                                                                | MSAS-05PMMC-SF8CXX<br>MSAS-04PMMC-SF8CXX<br>MSAS-03PMMC-SF8CXX |                                          |
|   |                                                                                                                                                                                                                                                                            |                                                         |                                                                                     |                                                                                           |                                                                                                  |                                                                                                                                                |                                                                                                                                                                     |                                                                | 26                                                             | MSAS-12PMMS-SF8BXX<br>MSAS-10PMMS-SF8BXX |
| E | 15:150mm<br>20:200mm<br>95:950mm<br>Cable Pitch Unit:50mm<br><br>A0:1000mm<br>A5:1500mm<br>Cable Pitch Unit:100mm<br>Wire Length(L):150~1500mm<br><br>B:PG9<br>C:M16*1.5<br><br>8:IP68/69K(防水等級68/69K)<br><br>F:Front Fasten(前鎖式/Enclosure Rear Mount)<br><br>S:Screw(螺紋式) |                                                         |                                                                                     |                                                                                           |                                                                                                  | 24                                                                                                                                             | 24                                                                                                                                                                  | MSAS-08PMMS-SF8BXX<br>MSAS-06PMMS-SF8BXX                       |                                                                |                                          |
| D |                                                                                                                                                                                                                                                                            |                                                         |                                                                                     |                                                                                           |                                                                                                  |                                                                                                                                                | 22                                                                                                                                                                  | MSAS-05PMMC-SF8BXX<br>MSAS-04PMMC-SF8BXX<br>MSAS-03PMMC-SF8BXX |                                                                |                                          |
|   |                                                                                                                                                                                                                                                                            |                                                         |                                                                                     |                                                                                           |                                                                                                  |                                                                                                                                                |                                                                                                                                                                     | Item No.                                                       |                                                                |                                          |
| C | 5 --<br>4 Black 黑<br>3 Blue 藍<br>2 --<br>1 Brown 棕                                                                                                                                                                                                                         | 5 --<br>4 Black 黑<br>3 Blue 藍<br>2 White 白<br>1 Brown 棕 | 5 Gray 灰<br>4 Black 黑<br>3 Blue 藍<br>2 White 白<br>1 Brown 棕                         | 8 --<br>7 Blue 藍<br>6 Pink 粉<br>5 --<br>4 Yellow 黃<br>3 Green 綠<br>2 Brown 棕<br>1 White 白 | 8 Red 紅<br>7 Blue 藍<br>6 Pink 粉<br>5 Gray 灰<br>4 Yellow 黃<br>3 Green 綠<br>2 Brown 棕<br>1 White 白 | 12 --<br>11 --<br>10 Violet 紫<br>9 Black 黑<br>8 Red 紅<br>7 Blue 藍<br>6 Pink 粉<br>5 Gray 灰<br>4 Yellow 黃<br>3 Green 綠<br>2 Brown 棕<br>1 White 白 | 12 Red/Blue 紅/藍<br>11 Gray/Pink 灰/粉<br>10 Violet 紫<br>9 Black 黑<br>8 Red 紅<br>7 Blue 藍<br>6 Pink 粉<br>5 Gray 灰<br>4 Yellow 黃<br>3 Green 綠<br>2 Brown 棕<br>1 White 白 |                                                                |                                                                |                                          |
| B | Pin Out                                                                                                                                                                                                                                                                    |                                                         |                                                                                     |                                                                                           |                                                                                                  |                                                                                                                                                |                                                                                                                                                                     |                                                                |                                                                |                                          |
| A |                                                                                                                                                                                                                                                                            |                                                         |                                                                                     |                                                                                           |                                                                                                  |                                                                                                                                                |                                                                                                                                                                     |                                                                |                                                                |                                          |
|   | Pin Assignments Front View                                                                                                                                                                                                                                                 |                                                         |                                                                                     |                                                                                           |                                                                                                  |                                                                                                                                                |                                                                                                                                                                     |                                                                |                                                                |                                          |
|   | UNIT:mm                                                                                                                                                                                                                                                                    |                                                         | TITLE<br>M12 A-Code Male Conn.<br>Panel Front With Wire harness Shielded            |                                                                                           | Amphenol LTW<br>安費諾亮泰企業股份有限公司                                                                    |                                                                                                                                                | ITEM NO                                                                                                                                                             |                                                                | DRAWN BY<br>Vicky                                              | DATE<br>2019-09-24                       |
|   | TOLERANCE<br>.X ±0.25<br>.XX ±0.1<br>.XXX ±0.05<br>ANGLES ±1°                                                                                                                                                                                                              |                                                         | SCALE 3:2<br>SIZE A4<br>SHEET 2 OF 2<br>REV. B<br>WC-REV. A.1<br>QC:Inspection item |                                                                                           | DWG NO<br>MSAS-XXPMMX-SF8XXX<br>CUSTOMER<br>ALTW                                                 |                                                                                                                                                | CHECKED BY<br>Rita<br>APPROVED BY<br>Max                                                                                                                            |                                                                | DATE<br>2019-09-24<br>DATE<br>2019-09-24                       |                                          |
|   | 1                                                                                                                                                                                                                                                                          | 2                                                       | 3                                                                                   | 4                                                                                         | 5                                                                                                | 6                                                                                                                                              | 7                                                                                                                                                                   | 8                                                              | W10814-03-0001A2                                               |                                          |

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