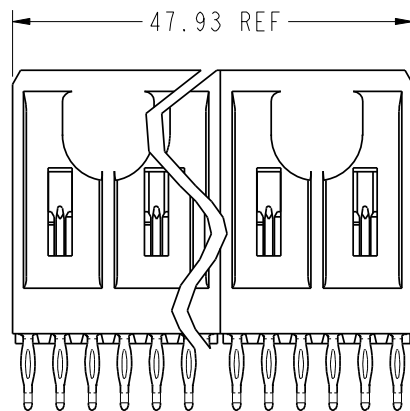
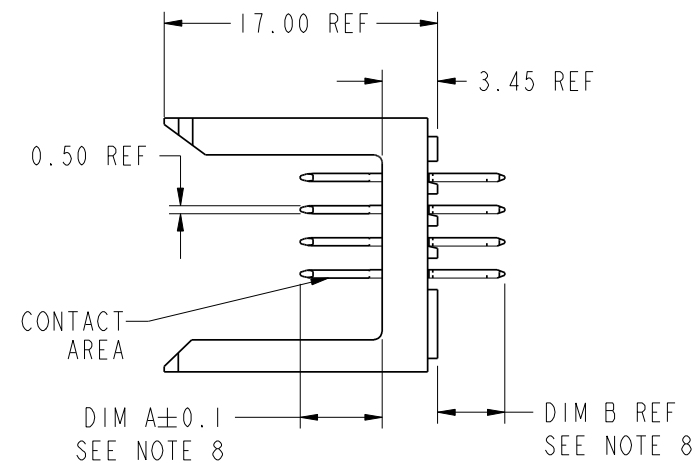
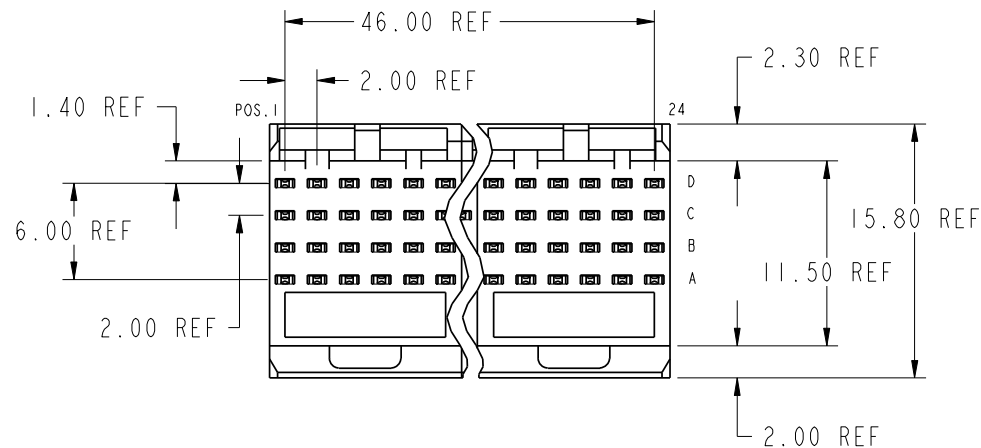


PRODUCT NUMBER

88923-XYX

88923-XYXLF



Copyright FCI.

| rev | ecn no    | dr  | date       |
|-----|-----------|-----|------------|
| BB  | V06-0569  | DCH | 2006-06-13 |
| BC  | V07-0240  | HTB | 2007-03-20 |
| BD  | DG10-0392 | TER | 2010-11-12 |
| -   | -         | -   | -          |
| AX  | V05-0662  | DAI | 2005-07-14 |
| AY  | V05-0858  | DAI | 2005-09-08 |
| BA  | V05-1030  | LP  | 2005-11-21 |

|                    |            |          |                                                         |                                   |                  |                |
|--------------------|------------|----------|---------------------------------------------------------|-----------------------------------|------------------|----------------|
| www.fciconnect.com |            |          | surface<br>ISO 1302                                     | tolerance std<br>ISO 406 ISO 1101 | projection<br>A4 | mm             |
| Dr                 | T.BRUNGARD | 11/19/99 | ANGULAR<br>0° ±2°                                       | 0.X ±0.3                          | size             | Scale<br>21:10 |
| Eng                | M.STRAWSER | 11/19/99 |                                                         | 0.XX ±0.13                        | ECN              |                |
| Chr                | M.STRAWSER | 11/19/99 |                                                         | 0.XXX ±0.051                      | Spec ref         | *              |
| Appr               | M.STRAWSER | 02/29/00 | Product family                                          | METRAL                            |                  |                |
| FCI                |            |          | title<br>METRAL SIGNAL HEADER<br>4 MOD, 4 ROW PRESS-FIT |                                   | dwg no<br>88923  | Rev.<br>BD     |
|                    |            |          | catalog no                                              | *                                 | CUSTOMER         | sheet 1 of 9   |

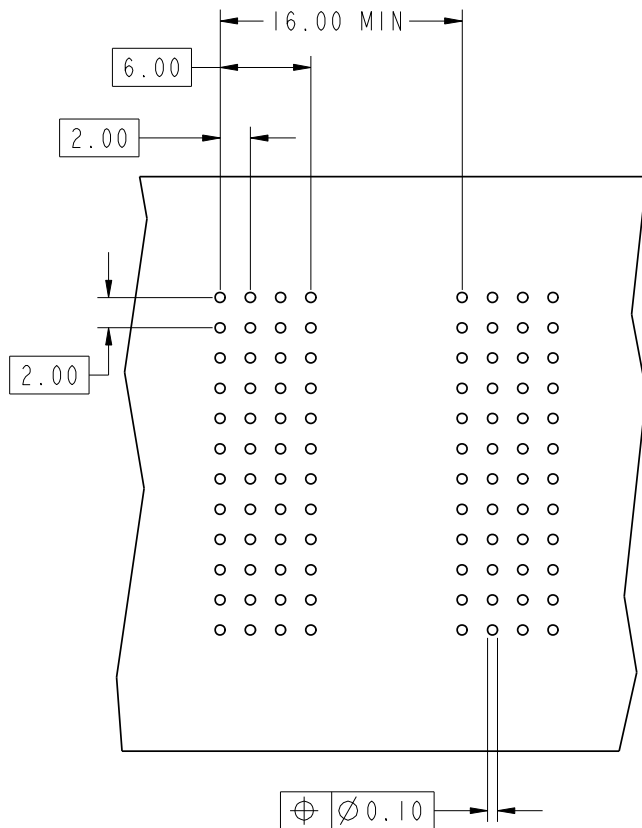
REV F - 2006-04-17

PDM: Rev:BD

STATUS:Released 4 Printed: Jan 17, 2011



Copyright FCI.



REQUIRED PC BOARD LAYOUT  
COMPONENT SIDE  
SEE PRINT 58351 FOR  
ADDITIONAL PCB INFORMATION

| KEY  |                 |                 |
|------|-----------------|-----------------|
| CODE | DIMENSIONS      |                 |
|      | DIM "A"<br>MATE | DIM "B"<br>TAIL |
| 1    | 5.00            | 4.30            |
| 2    | 5.75            | 4.30            |
| 3    | 6.50            | 4.30            |
| 4    | 7.25            | 4.30            |
| 5    | 5.00            | 13.60           |
| 6    | 5.75            | 13.60           |
| 7    | 6.50            | 13.60           |
| 8    | 7.25            | 13.60           |
| 13   | 8.25            | 4.30            |
| 14   | 8.25            | 13.60           |
| 19   | 8.00            | 4.30            |
| 20   | 8.00            | 13.60           |
| 25   | 5.75            | 15.60           |
| 59   | 5.00            | 11.80           |
| 60   | 5.75            | 11.80           |
| 61   | 6.50            | 11.80           |

|                                                                                       |            |          |                                                                |       |        |                                   |                        |                                                                                                     |                |                                                                                             |          |
|---------------------------------------------------------------------------------------|------------|----------|----------------------------------------------------------------|-------|--------|-----------------------------------|------------------------|-----------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------|----------|
| www.fciconnect.com                                                                    |            |          | surface<br>ISO 1302                                            |       | ✓      | tolerance std<br>ISO 406 ISO 1101 |                        | projection<br> |                | mm<br> |          |
|                                                                                       |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED                          |       |        |                                   |                        |                                                                                                     |                |                                                                                             |          |
| Dr                                                                                    | T.BRUNGARD | 11/19/99 | ANGULAR                                                        |       | LINEAR | 0.X                               | ±0.3                   | size<br>A4                                                                                          | Scale<br>11:10 |                                                                                             |          |
| Eng                                                                                   | M.STRAWSER | 11/19/99 |                                                                |       |        | 0.XX                              | ±0.13                  |                                                                                                     |                |                                                                                             |          |
| Chr                                                                                   | M.STRAWSER | 11/19/99 | 0° ±2°                                                         | 0.XXX |        | ±0.051                            | ECN                    |                                                                                                     |                |                                                                                             |          |
| Appr                                                                                  | M.STRAWSER | 02/29/00 | Product family                                                 |       |        |                                   | METRAL                 |                                                                                                     | Spec ref *     |                                                                                             |          |
|  |            |          | title<br><b>METRAL SIGNAL HEADER</b><br>4 MOD, 4 ROW PRESS-FIT |       |        |                                   | dwg no<br><b>88923</b> | Rev.<br><b>BD</b>                                                                                   |                |                                                                                             |          |
| catalog no                                                                            |            |          |                                                                |       |        |                                   |                        |                                                                                                     |                | *                                                                                           | CUSTOMER |



Copyright FCI.

A

B

C

D

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X01<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | -                      | 2 | - | 2 | - | 2      | - | 2 | - | 2  | -      | 2  | -  | 2  | -  | 2      | -  | 2  | -  | 2  | -  | 2  | -  | 2  |
|                                                     | C   | -                      | 2 | - | 2 | - | 2      | - | 2 | - | 2  | -      | 2  | -  | 2  | -  | 2      | -  | 2  | -  | 2  | -  | 2  | -  | 2  |
|                                                     | B   | -                      | 2 | - | 2 | - | 2      | - | 2 | - | 2  | -      | 2  | -  | 2  | -  | 2      | -  | 2  | -  | 2  | -  | 2  | -  | 2  |
|                                                     | A   | -                      | 2 | - | 2 | - | 2      | - | 2 | - | 2  | -      | 2  | -  | 2  | -  | 2      | -  | 2  | -  | 2  | -  | 2  | -  | 2  |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X02<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | -                      | 6 | - | 6 | - | 6      | - | 6 | - | 6  | -      | 6  | -  | 6  | -  | 6      | -  | 6  | -  | 6  | -  | 6  | -  | 6  |
|                                                     | C   | -                      | 6 | - | 6 | - | 6      | - | 6 | - | 6  | -      | 6  | -  | 6  | -  | 6      | -  | 6  | -  | 6  | -  | 6  | -  | 6  |
|                                                     | B   | -                      | 6 | - | 6 | - | 6      | - | 6 | - | 6  | -      | 6  | -  | 6  | -  | 6      | -  | 6  | -  | 6  | -  | 6  | -  | 6  |
|                                                     | A   | -                      | 6 | - | 6 | - | 6      | - | 6 | - | 6  | -      | 6  | -  | 6  | -  | 6      | -  | 6  | -  | 6  | -  | 6  | -  | 6  |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X03<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | I                      | I | I | I | I | I      | - | - | - | -  | -  | -      | -  | -  | -  | -  | -  | I      | I  | I  | I  | I  | I  | I  |
|                                                     | C   | I                      | I | I | I | I | I      | - | - | - | -  | -  | -      | -  | -  | -  | -  | -  | I      | I  | I  | I  | I  | I  | I  |
|                                                     | B   | I                      | I | I | I | I | I      | - | - | - | -  | -  | I      | -  | -  | -  | -  | -  | I      | I  | I  | I  | I  | I  | I  |
|                                                     | A   | I                      | I | I | I | I | I      | - | - | - | -  | -  | I      | -  | -  | -  | -  | -  | I      | I  | I  | I  | I  | I  | I  |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X04<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 3                      | I | I | 3 | 3 | I      | I | I | I | I  | I      | I  | I  | I  | I  | I      | I  | I  | I  | I  | I  | I  | I  | 3  |
|                                                     | C   | 3                      | I | I | 3 | 3 | I      | I | I | I | I  | I      | I  | I  | I  | I  | I      | I  | I  | I  | I  | I  | I  | I  | 3  |
|                                                     | B   | 3                      | I | I | 3 | 3 | I      | I | I | I | I  | I      | I  | I  | I  | I  | I      | I  | I  | I  | I  | I  | I  | I  | 3  |
|                                                     | A   | 3                      | I | I | 3 | 3 | I      | I | I | I | I  | I      | I  | I  | I  | I  | I      | I  | I  | I  | I  | I  | I  | I  | 3  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X05<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 20                     | 20 | 20 | 20 | 20 | 20     | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                 | C   | 20                     | 20 | 20 | 20 | 20 | 20     | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                 | B   | 20                     | 20 | 20 | 20 | 20 | 20     | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                 | A   | 20                     | 20 | 20 | 20 | 20 | 20     | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |

3

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X06<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                     | C   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                     | B   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                     | A   | 2                      | 2 | 2 | 2 | 2 | 2      | I | I | I | I  | I  | I      | 2  | 2  | 2  | 2  | 2  | 2      | 4  | 4  | 4  | 4  | 4  | 4  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X07<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 25                     | 25 | 25 | 25 | 25 | 25     | 25 | 25 | 25 | 25 | 25 | 25     | 25 | 25 | 25 | 25 | 25 | 25     | 25 | 25 | 25 | 25 | 25 | 25 |
|                                                 | C   | 25                     | 25 | 25 | 25 | 25 | 25     | 25 | 25 | 25 | 25 | 25 | 25     | 25 | 25 | 25 | 25 | 25 | 25     | 25 | 25 | 25 | 25 | 25 | 25 |
|                                                 | B   | 25                     | 25 | 25 | 25 | 25 | 25     | 25 | 25 | 25 | 25 | 25 | 25     | 25 | 25 | 25 | 25 | 25 | 25     | 25 | 25 | 25 | 25 | 25 | 25 |
|                                                 | A   | 25                     | 25 | 25 | 25 | 25 | 25     | 25 | 25 | 25 | 25 | 25 | 25     | 25 | 25 | 25 | 25 | 25 | 25     | 25 | 25 | 25 | 25 | 25 | 25 |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X08<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                     | C   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                     | B   | 2                      | 2 | 2 | 1 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                     | A   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X09<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|                                                     | C   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|                                                     | B   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|                                                     | A   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X10<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | I                      | I | I | - | - | I      | I | I | I | -  | -      | I  | I  | I  | I  | I      | I  | I  | -  | -  | I  | I  | I  | I  |
|                                                 | C   | I                      | I | I | - | - | I      | I | I | I | I  | -      | I  | I  | I  | I  | I      | I  | I  | I  | -  | I  | I  | I  | I  |
|                                                 | B   | I                      | I | I | I | I | I      | I | I | I | I  | I      | I  | I  | I  | I  | I      | I  | I  | I  | I  | I  | I  | I  | I  |
|                                                 | A   | I                      | I | I | - | - | I      | I | I | I | I  | -      | I  | I  | I  | I  | I      | I  | I  | I  | -  | I  | I  | I  | I  |

|                    |            |          |                                                      |  |                                |  |              |  |              |  |
|--------------------|------------|----------|------------------------------------------------------|--|--------------------------------|--|--------------|--|--------------|--|
| www.fciconnect.com |            |          | surface <input checked="" type="checkbox"/> ISO 1302 |  | tolerance std ISO 406 ISO 1101 |  | projection   |  | mm           |  |
|                    |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED                |  |                                |  |              |  |              |  |
| Dr                 | T.BRUNGARD | 11/19/99 | ANGULAR LINEAR                                       |  | 0.X ±0.3                       |  | size A4      |  | Scale 11:10  |  |
| Eng                | M.STRAWSER | 11/19/99 |                                                      |  | 0.XX ±0.13                     |  |              |  |              |  |
| Chr                | M.STRAWSER | 11/19/99 | 0° ±2°                                               |  | 0.XXX ±0.051                   |  | ECN          |  |              |  |
| Appr               | M.STRAWSER | 02/29/00 | Product family                                       |  | METRAL                         |  | Spec ref     |  | *            |  |
|                    |            |          | title METRAL SIGNAL HEADER                           |  |                                |  | dwg no 88923 |  | Rev. BD      |  |
|                    |            |          | 4 MOD, 4 ROW PRESS-FIT                               |  |                                |  |              |  |              |  |
|                    |            |          | catalog no                                           |  |                                |  | *            |  | CUSTOMER     |  |
|                    |            |          |                                                      |  |                                |  |              |  | sheet 3 of 9 |  |



Copyright FCI.

D

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X11<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 1                      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 3  | 1  | 1  | 1  | 1  |
|                                                     | C   | 1                      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 3  | 1  | 1  | 1  | 1  |
|                                                     | B   | 1                      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 3  | 1  | 1  | 1  | 1  |
|                                                     | A   | 1                      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 3  | 1  | 1  | 1  | 1  |
|                                                     |     |                        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |    |    |    |    |
| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|                                                     |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X12<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 19                     | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 19 | 3  |
|                                                     | C   | 3                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                     | B   | 3                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                     | A   | 4                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 4  |
|                                                     |     |                        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |    |    |    |    |
| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|                                                     |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X13<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 2                      | 2  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 2  | 2  |
|                                                     | C   | 3                      | 3  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 3  | 3  |
|                                                     | B   | 3                      | 3  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 3  | 3  |
|                                                     | A   | 2                      | 2  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 2  | 2  |
|                                                     |     |                        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |    |    |    |    |
| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|                                                     |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X14<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 1                      | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                     | C   | 19                     | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                     | B   | 1                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                     | A   | 3                      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                     |     |                        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |    |    |    |    |
| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|                                                     |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X15<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 3                      | 1  | 3  | 1  | 3  | 1      | 3  | 1  | 3  | 1  | 3      | 1  | 3  | 1  | 3  | 1      | 3  | 1  | 3  | 1  | 3  | 1  | 3  | 1  |
|                                                     | C   | 1                      | 3  | 1  | 3  | 1  | 3      | 1  | 3  | 1  | 3  | 1      | 3  | 1  | 3  | 1  | 3      | 1  | 3  | 1  | 3  | 1  | 3  | 1  | 3  |
|                                                     | B   | 19                     | 1  | 19 | 1  | 19 | 1      | 19 | 1  | 19 | 1  | 19     | 1  | 19 | 1  | 19 | 1      | 19 | 1  | 19 | 1  | 19 | 1  | 19 | 1  |
|                                                     | A   | 1                      | 19 | 1  | 19 | 1  | 19     | 1  | 19 | 1  | 19 | 1      | 19 | 1  | 19 | 1  | 19     | 1  | 19 | 1  | 19 | 1  | 19 | 1  | 19 |
|                                                     |     |                        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |    |    |    |    |

REV F - 2006-04-17

2

PDM: Rev:BD

STATUS:Released Printed: Jan 17, 2011

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |            |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
|-------------------------------------------------|-----|------------------------|------------|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|---|---|---|---|---|---|
|                                                 |     | 1                      | 2          | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |   |   |   |   |   |   |
|                                                 |     | D                      | -          | 2  | -  | 2  | -      | 2  | -  | 2  | -  | 2      | -  | 2  | -  | 2  | -      | 2  | -  | 2  | -  | 2  | -  | 2  | -  | 2 | - |   |   |   |   |
| 88923-X16<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | C   | -                      | -          | -  | -  | -  | -      | -  | -  | -  | -  | -      | -  | -  | -  | -  | -      | -  | -  | -  | -  | -  | -  | -  | -  |   |   |   |   |   |   |
|                                                 | B   | -                      | -          | -  | -  | -  | -      | -  | -  | -  | -  | -      | -  | -  | -  | -  | -      | -  | -  | -  | -  | -  | -  | -  | -  |   |   |   |   |   |   |
|                                                 | A   | -                      | 2          | -  | 2  | -  | 2      | -  | 2  | -  | 2  | -      | 2  | -  | 2  | -  | 2      | -  | 2  | -  | 2  | -  | 2  | -  | 2  | - |   |   |   |   |   |
|                                                 |     |                        |            |    |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |            |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
|                                                 |     | 1                      | 2          | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |   |   |   |   |   |   |
|                                                 |     | D                      | -          | 6  | -  | 6  | -      | 6  | -  | 6  | -  | 6      | -  | 6  | -  | 6  | -      | 6  | -  | 6  | -  | 6  | -  | 6  | -  | 6 | - |   |   |   |   |
| 88923-X17<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | C   | -                      | -          | -  | -  | -  | -      | -  | -  | -  | -  | -      | -  | -  | -  | -  | -      | -  | -  | -  | -  | -  | -  | -  | -  |   |   |   |   |   |   |
|                                                 | B   | -                      | -          | -  | -  | -  | -      | -  | -  | -  | -  | -      | -  | -  | -  | -  | -      | -  | -  | -  | -  | -  | -  | -  | -  |   |   |   |   |   |   |
|                                                 | A   | -                      | 6          | -  | 6  | -  | 6      | -  | 6  | -  | 6  | -      | 6  | -  | 6  | -  | 6      | -  | 6  | -  | 6  | -  | 6  | -  | 6  | - |   |   |   |   |   |
|                                                 |     |                        |            |    |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |            |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
|                                                 |     | 1                      | 2          | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |   |   |   |   |   |   |
|                                                 |     | D                      | *          | *  | *  | *  | *      | *  | *  | *  | *  | *      | *  | *  | *  | *  | *      | *  | *  | *  | *  | *  | *  | *  | *  | * | * |   |   |   |   |
| 88923-X18<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | C   | *                      | UNASSIGNED |    |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    | *  | *  | *  | *  | * | * | * | * | * | * |
|                                                 | B   | *                      | UNASSIGNED |    |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    | *  | *  | *  | *  | * | * | * | * | * | * |
|                                                 | A   | *                      | *          | *  | *  | *  | *      | *  | *  | *  | *  | *      | *  | *  | *  | *  | *      | *  | *  | *  | *  | *  | *  | *  | *  | * |   |   |   |   |   |
|                                                 |     |                        |            |    |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |            |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
|                                                 |     | 1                      | 2          | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |   |   |   |   |   |   |
|                                                 |     | D                      | 2          | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2 | 2 |   |   |   |   |
| 88923-X19<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | C   | 2                      | 2          | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |   |   |   |   |   |   |
|                                                 | B   | 2                      | 2          | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 4  | 4      | 2  | 4  | 2  | 4  | 2      | 4  | 2  | 4  | 2  | 4  | 2  | 4  | 2  |   |   |   |   |   |   |
|                                                 | A   | 19                     | 19         | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |   |   |   |   |   |   |
|                                                 |     |                        |            |    |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |            |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
|                                                 |     | 1                      | 2          | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |   |   |   |   |   |   |
|                                                 |     | D                      | 1          | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 1 |   |   |   |   |   |
| 88923-X20<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | C   | 1                      | 3          | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 1  | 1  |   |   |   |   |   |   |
|                                                 | B   | 3                      | 3          | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 1  |   |   |   |   |   |   |
|                                                 | A   | 1                      | 3          | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |   |   |   |   |   |   |



Copyright FCI.

A

B

C

D

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X21<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 1                      | 19 | 3  | 19 | 3  | 19     | 3  | 19 | 3  | 19 | 3      | 19 | 3  | 19 | 3  | 19     | 3  | 19 | 3  | 19 | 3  | 19 | 3  | 19 |
|                                                     | C   | 19                     | 3  | 19 | 3  | 19 | 3      | 19 | 3  | 19 | 3  | 19     | 3  | 19 | 3  | 19 | 3      | 19 | 3  | 19 | 3  | 19 | 3  | 19 | 3  |
|                                                     | B   | 3                      | 19 | 3  | 19 | 3  | 19     | 3  | 19 | 3  | 19 | 3      | 19 | 3  | 19 | 3  | 19     | 3  | 19 | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                     | A   | 1                      | 3  | 19 | 3  | 19 | 3      | 19 | 3  | 19 | 3  | 19     | 3  | 19 | 3  | 19 | 3      | 19 | 3  | 19 | 3  | 19 | 3  | 19 | 3  |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|----|----|----|----|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X22<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 13                     | 13 | 13 | 13 | 13 | 13     | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                     | C   | 19                     | 19 | 19 | 19 | 19 | 19     | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                     | B   | 19                     | 19 | 19 | 19 | 19 | 19     | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                     | A   | 13                     | 13 | 13 | 13 | 13 | 13     | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|----|----|----|----|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X23<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 14                     | 14 | 14 | 14 | 14 | 14     | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                     | C   | 20                     | 20 | 20 | 20 | 20 | 20     | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                     | B   | 20                     | 20 | 20 | 20 | 20 | 20     | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                     | A   | 14                     | 14 | 14 | 14 | 14 | 14     | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                     |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X24<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 6                      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                     | C   | 6                      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                     | B   | 6                      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 8  | 8  | 6      | 8  | 8  | 6  | 8  | 8  | 6      | 8  | 8  | 6  | 8  | 8  | 8  |
|                                                     | A   | 20                     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X25<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 2                      | 2 | 2 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1  | 1      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                     | C   | 2                      | 2 | 2 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1  | 1      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                     | B   | 2                      | 2 | 2 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1  | 1      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                     | A   | 2                      | 2 | 2 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1  | 1      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |

3

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X26<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 3                      | 2 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 2  | 3  |
|                                                     | C   | 3                      | 2 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 2  | 3  |
|                                                     | B   | 3                      | 2 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 2  | 3  |
|                                                     | A   | 3                      | 2 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 2  | 3  |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X27<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 59                     | 59 | 59 | 59 | 59 | 59     | 59 | 59 | 59 | 59 | 59     | 59 | 59 | 59 | 59 | 59     | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 |
|                                                     | C   | 60                     | 60 | 60 | 60 | 60 | 60     | 60 | 60 | 60 | 60 | 60     | 60 | 60 | 60 | 60 | 60     | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
|                                                     | B   | 60                     | 60 | 60 | 60 | 60 | 60     | 60 | 60 | 60 | 60 | 60     | 60 | 60 | 60 | 60 | 60     | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
|                                                     | A   | 61                     | 61 | 61 | 61 | 61 | 61     | 61 | 61 | 61 | 61 | 61     | 61 | 61 | 61 | 61 | 61     | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X28<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 2                      | 2 | 2 | 4 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                     | C   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                     | B   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                     | A   | 4                      | 4 | 4 | 4 | 4 | 4      | 2 | 2 | 2 | 2  | 2      | 2  | 1  | 1  | 1  | 1      | 1  | 1  | 2  | 2  | 2  | 2  | 2  | 2  |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   |   | MOD. 2 |   |   |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|---|--------|---|---|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6 | 7      | 8 | 9 | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19     | 20 | 21 | 22 | 23 | 24 |
| 88923-X29<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 1                      | 1 | 1 | 1 | 1 | 1 | 3      | 1 | 1 | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  |
|                                                     | C   | 1                      | - | - | 1 | 1 | 1 | 1      | 1 | 1 | 1  | 1  | 1  | 1      | 3  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  |
|                                                     | B   | 1                      | 1 | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  |
|                                                     | A   | 1                      | 1 | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 3  | 1      | 1  | 1  | 1  | 1  | 1  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   |   | MOD. 2 |   |   |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|---|--------|---|---|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6 | 7      | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17     | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X30<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 1                      | 1 | 1 | 1 | 1 | 1 | 3      | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | C   | 1                      | 1 | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1  | 1  | 1      | 1  | 3  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | B   | 1                      | 1 | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | A   | 1                      | 1 | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 3      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |

|                    |            |          |                                                      |  |                                |  |              |  |              |  |
|--------------------|------------|----------|------------------------------------------------------|--|--------------------------------|--|--------------|--|--------------|--|
| www.fciconnect.com |            |          | surface <input checked="" type="checkbox"/> ISO 1302 |  | tolerance std ISO 406 ISO 1101 |  | projection   |  | mm           |  |
|                    |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED                |  |                                |  |              |  |              |  |
| Dr                 | T.BRUNGARD | 11/19/99 | ANGULAR LINEAR                                       |  | 0.X ±0.3                       |  | size A4      |  | Scale 11:10  |  |
| Eng                | M.STRAWSER | 11/19/99 |                                                      |  | 0.XX ±0.13                     |  |              |  |              |  |
| Chr                | M.STRAWSER | 11/19/99 | 0° ±2°                                               |  | 0.XXX ±0.051                   |  | ECN          |  |              |  |
| Appr               | M.STRAWSER | 02/29/00 | Product family                                       |  | METRAL                         |  | Spec ref     |  | *            |  |
|                    |            |          | title METRAL SIGNAL HEADER                           |  |                                |  | dwg no 88923 |  | Rev. BD      |  |
|                    |            |          | 4 MOD, 4 ROW PRESS-FIT                               |  |                                |  |              |  |              |  |
|                    |            |          | catalog no *                                         |  |                                |  | CUSTOMER     |  | sheet 5 of 9 |  |





Copyright FCI.

A

B

C

D

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 88923-X41<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 8  | 20 | 7  | 7  |
|                                                     | C   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 8  | 20 | 7  | 7  |
|                                                     | B   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 8  | 20 | 7  | 7  |
|                                                     | A   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 8  | 20 | 7  | 7  |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X42<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 6  | 7  | 7  | 7      | 7  | 7  | 20 | 20 | 8  | 8  | 7  | 7  |
|                                                     | C   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 20 | 20 | 8  | 8  | 7  | 7  |
|                                                     | B   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 20 | 20 | 8  | 8  | 7  | 7  |
|                                                     | A   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 20 | 20 | 8  | 8  | 7  | 7  |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 88923-X43<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 7                      | 7 | 7 | 7 | 7 | 7      | 6 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 6  | 7      | 7  | 7  | 7  | 20 | 8  | 7  | 7  |
|                                                     | C   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 20 | 8  | 7  | 7  |
|                                                     | B   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 20 | 8  | 7  | 7  |
|                                                     | A   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 20 | 8  | 7  | 7  |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 88923-X44<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 6  | 7      | 7  | 7  | 7  | 20 | 8  | 7  | 7  |
|                                                     | C   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 20 | 8  | 7  | 7  |
|                                                     | B   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 20 | 8  | 7  | 7  |
|                                                     | A   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 20 | 8  | 7  | 7  |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 88923-X45<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 7                      | 7 | 7 | 8 | 8 | 8      | 6 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 20 | 20 | 8  | 8  | 7  | 7  |
|                                                     | C   | 7                      | 7 | 7 | 6 | 6 | 6      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 20 | 20 | 8  | 8  | 7  | 7  |
|                                                     | B   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 20 | 20 | 8  | 8  | 7  | 7  |
|                                                     | A   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 20 | 20 | 8  | 8  | 7  | 7  |

3

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X46<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 3  | 3  | 1  | 1  | 1  | 1  |
|                                                     | C   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 3  | 3  | 1  | 1  | 1  | 1  |
|                                                     | B   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 3      | 1  | 3  | 3  | 1  | 1  | 1  |
|                                                     | A   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 3      | 1  | 3  | 3  | 1  | 1  | 1  |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X47<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 3  | 1  | 3      | 3  | 1  | 3  | 3  | 1  | 1  | 1  | 1  |
|                                                     | C   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 3  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                     | B   | 1                      | 1 | 1 | 1 | 1 | 3      | 1 | 1 | 1 | 1  | 1      | 3  | 1  | 1  | 1  | 1      | 1  | 3  | 1  | 3  | 3  | 1  | 1  | 1  |
|                                                     | A   | 1                      | 1 | 1 | 1 | 1 | 3      | 1 | 1 | 1 | 1  | 1      | 3  | 1  | 1  | 1  | 1      | 1  | 3  | 1  | 3  | 3  | 1  | 1  | 1  |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X48<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 1                      | 1 | 3 | 1 | 1 | 1      | 1 | 3 | 1 | 1  | 1      | 1  | 3  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                     | C   | 1                      | 1 | 3 | 1 | 1 | 1      | 1 | 3 | 1 | 1  | 1      | 1  | 3  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                     | B   | 1                      | 1 | 1 | 1 | 1 | 3      | 1 | 1 | 1 | 1  | 1      | 3  | 1  | 1  | 1  | 1      | 1  | 3  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                     | A   | 1                      | 1 | 1 | 1 | 1 | 3      | 1 | 1 | 1 | 1  | 1      | 3  | 1  | 1  | 1  | 1      | 1  | 3  | 1  | 1  | 1  | 1  | 1  | 1  |

| METRAL<br>P/N                                                         | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |
|-----------------------------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|
|                                                                       |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 |
| 88923-X49<br>AND<br>88923-X49LF<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 7                      | 7 | 7 | 7 | 7 | 7      | 6 | 7 | 7 | 7  | 7  | 7      | 7  | 7  | 6  | 7  | 7  | 7      | 7  | 8  | 8  | 7  | 7  |
|                                                                       | C   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 8  | 8  | 7  | 7  |
|                                                                       | B   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 8  | 8  | 7  | 7  |
|                                                                       | A   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 8  | 8  | 7  | 7  |

| METRAL<br>P/N                                                         | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-----------------------------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                                       |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X50<br>AND<br>88923-X50LF<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 19                     | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                                       | C   | 19                     | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                                       | B   | 19                     | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                                       | A   | 19                     | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |

|                    |            |          |                                                      |  |                                |  |              |  |              |  |
|--------------------|------------|----------|------------------------------------------------------|--|--------------------------------|--|--------------|--|--------------|--|
| www.fciconnect.com |            |          | surface <input checked="" type="checkbox"/> ISO 1302 |  | tolerance std ISO 406 ISO 1101 |  | projection   |  | mm           |  |
|                    |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED                |  |                                |  |              |  |              |  |
| Dr                 | T.BRUNGARD | 11/19/99 | ANGULAR                                              |  | LINEAR                         |  | 0.X          |  | ±0.3         |  |
| Eng                | M.STRAWSER | 11/19/99 |                                                      |  |                                |  | 0.XX         |  | ±0.13        |  |
| Chr                | M.STRAWSER | 11/19/99 | 0° ±2°                                               |  |                                |  | 0.XXX        |  | ±0.051       |  |
| Appr               | M.STRAWSER | 02/29/00 | Product family                                       |  | METRAL                         |  | Spec ref     |  | *            |  |
|                    |            |          | title METRAL SIGNAL HEADER                           |  |                                |  | dwg no 88923 |  | Rev. BD      |  |
|                    |            |          | 4 MOD, 4 ROW PRESS-FIT                               |  |                                |  |              |  |              |  |
|                    |            |          | catalog no *                                         |  |                                |  | CUSTOMER     |  | sheet 7 of 9 |  |



Copyright FCI.

A

B

C

D

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 88923-X51<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 8  | 8  |
|                                                     | C   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 8  | 8  |
|                                                     | B   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 8  | 8  |
|                                                     | A   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 8  | 8  |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 88923-X52<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 7                      | 7 | 7 | 4 | 7 | 7      | 7 | 7 | 7 | 7  | 6      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 8  | 8  | 7  | 7  |
|                                                     | C   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 8  | 8  | 7  | 7  |
|                                                     | B   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 8  | 8  | 7  | 7  |
|                                                     | A   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 8  | 8  | 7  | 7  |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 88923-X53<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 7                      | 7 | 7 | 4 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 6  | 7      | 7  | 7  | 7  | 8  | 8  | 7  | 7  |
|                                                     | C   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 8  | 8  | 7  | 7  |
|                                                     | B   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 8  | 8  | 7  | 7  |
|                                                     | A   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 8  | 8  | 7  | 7  |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 88923-X54<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 1                      | 1 | 1 | 1 | 3 | 3      | 3 | 3 | 3 | 1  | 1      | 1  | 1  | 1  | 1  | 3      | 3  | 3  | 3  | 3  | 3  | 1  | 1  |
|                                                     | C   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                     | B   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                     | A   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88923-X55<br><br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 2                      | 2 | 2 | 2 | 2 | 2      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                     | C   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                     | B   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                     | A   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |



|                                                                                       |            |          |                                                         |     |        |                                   |                 |                                                                                                     |            |                                                                                             |  |
|---------------------------------------------------------------------------------------|------------|----------|---------------------------------------------------------|-----|--------|-----------------------------------|-----------------|-----------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------|--|
| www.fciconnect.com                                                                    |            |          | surface<br>ISO 1302                                     |     | ✓      | tolerance std<br>ISO 406 ISO 1101 |                 | projection<br> |            | mm<br> |  |
|                                                                                       |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED                   |     |        |                                   |                 |                                                                                                     |            |                                                                                             |  |
| Dr                                                                                    | T.BRUNGARD | 11/19/99 | ANGULAR                                                 |     | LINEAR |                                   | 0.X             | ±0.3                                                                                                | size<br>A4 | Scale<br>11:10                                                                              |  |
| Eng                                                                                   | M.STRAWSER | 11/19/99 |                                                         |     |        |                                   | 0.XX            | ±0.13                                                                                               |            |                                                                                             |  |
| Chr                                                                                   | M.STRAWSER | 11/19/99 | 0°                                                      | ±2° |        |                                   | 0.XXX           | ±0.051                                                                                              | ECN        |                                                                                             |  |
| Appr                                                                                  | M.STRAWSER | 02/29/00 | Product family                                          |     |        |                                   | METRAL          |                                                                                                     | Spec ref * |                                                                                             |  |
|  |            |          | title<br>METRAL SIGNAL HEADER<br>4 MOD, 4 ROW PRESS-FIT |     |        |                                   | dwg no<br>88923 |                                                                                                     |            | Rev.<br>BD                                                                                  |  |
|                                                                                       |            |          | catalog no *                                            |     |        |                                   | CUSTOMER        |                                                                                                     |            | sheet 8 of 9                                                                                |  |



Copyright FCI.

### PLATING IN CONTACT AREA

| DASH NUMBER | PERFORMANCE LEVEL                 | NOTES       |
|-------------|-----------------------------------|-------------|
| -Ayy        | TELCORDIA CO                      | SEE NOTE 9  |
| -NIyy       | TELCORDIA CO (NXT)                | -           |
| -N5yy       | TELCORDIA UE (NXT)                | -           |
| -Iyy        | TELCORDIA CO                      | -           |
| -2Yy        | TELECOM CLASS                     | -           |
| -3Yy        | IEC CLASS I                       | -           |
| -5Yy        | TELCORDIA UE                      | -           |
| -9Yy        | TELCORDIA CO                      | -           |
| -AYYLF      | TELCORDIA CO                      | SEE NOTE 10 |
| -NIYYLF     | TELCORDIA CO (NXT)<br>IEC CLASS I | SEE NOTE 10 |
| -N5YYLF     | TELCORDIA UE (NXT)                | SEE NOTE 10 |
| -IYYLF      | TELCORDIA CO<br>IEC CLASS I       | SEE NOTE 10 |
| -2YYLF      | TELECOM CLASS                     | SEE NOTE 10 |
| -5YYLF      | TELCORDIA UE                      | SEE NOTE 10 |

### NOTES:

- FOR DIM A AND B SEE SHEET 2 AND UP.
- BODY MATERIAL: LIQUID CRYSTAL  
POLYMER 30 % GLASS.  
FLAME RETARDANT ACC. UL 94-V0.
- PIN MATERIAL:  
PHOSPHOR BRONZE.
- PLATING ON PRESS-FIT TAIL:  
88923 -XYy IS SnPb  
88923-XYyLF IS SN (LEAD FREE)  
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE  
LEVEL SHOWN IN TABLE.
- PRODUCT MARKING:  
PART NUMBER DESIGNATION & BATCH I.D.
- ALL PRODUCTS WITH PART NUMBERS SHOWN IN  
SUBSEQUENT TABLES WILL BE PACKAGED IN TUBES.  
IF TRAY PACKAGING IS REQUIRED, A SUFFIX "P"  
WILL BE ADDED TO THE END OF THE PART NUMBER.  
EXAMPLE: XXXXX-XXXP OR XXXXX-XXXPLF
- PRODUCT SPECIFICATION GS-12-180  
APPLICATION SPECIFICATION BUS-20-073
- AFTER INSERTION INTO CIRCUIT BOARD WITH  
QUALIFIED TOOL.
- A PLATING HAS Au FLASH IN PRESS FIT  
AREA (LEAD FREE).
- THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE  
EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS  
AS DESCRIBED IN GS-22-008.
- FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX.  
EXAMPLE: 88923-X01LF
- ALL PRODUCTS EXCEPT THOSE WITH PART NUMBERS CONTAINING  
(DRAWING NO.)-N1--- OR (DRAWING NO.)-N5---WILL WITHSTAND EXPOSURE  
TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR  
VAPOR PHASE REFLOW OVEN. PART NUMBERS (DRAWING NO.)-N1---  
AND (DRAWINGS NO.)-N5---WILL NOT WITHSTAND REFLOW AND Au CONTACT  
SURFACE OF THE CONTACTS SHALL BE EXPOSED TO A MAXIMUM 140°C FOR  
NO LONGER THAN 15 SECONDS IN A WAVE SOLDER APPLICATION.

|                                                                                       |            |          |                                       |  |        |                                   |        |                                                                                                     |            |                                                                                             |  |  |              |
|---------------------------------------------------------------------------------------|------------|----------|---------------------------------------|--|--------|-----------------------------------|--------|-----------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------|--|--|--------------|
| www.fciconnect.com                                                                    |            |          | surface<br>ISO 1302                   |  | ✓      | tolerance std<br>ISO 406 ISO 1101 |        | projection<br> |            | mm<br> |  |  |              |
|                                                                                       |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |  |        |                                   |        |                                                                                                     |            |                                                                                             |  |  |              |
| Dr                                                                                    | T.BRUNGARD | 11/19/99 | ANGULAR                               |  | LINEAR | 0.X                               |        | ±0.3                                                                                                | size<br>A4 | Scale<br>11:10                                                                              |  |  |              |
| Eng                                                                                   | M.STRAWSER | 11/19/99 |                                       |  |        | 0.XX                              |        | ±0.13                                                                                               |            |                                                                                             |  |  |              |
| Chr                                                                                   | M.STRAWSER | 11/19/99 | 0° ±2°                                |  | 0.XXX  | ±0.051                            |        | ECN                                                                                                 |            |                                                                                             |  |  |              |
| Appr                                                                                  | M.STRAWSER | 02/29/00 | Product family                        |  |        |                                   | METRAL |                                                                                                     | Spec ref * |                                                                                             |  |  |              |
|  |            |          | title<br>METRAL SIGNAL HEADER         |  |        |                                   |        | dwg no<br>88923                                                                                     |            |                                                                                             |  |  | Rev<br>BD    |
|                                                                                       |            |          |                                       |  |        |                                   |        |                                                                                                     |            |                                                                                             |  |  |              |
|                                                                                       |            |          | 4 MOD, 4 ROW PRESS-FIT                |  |        |                                   |        | CUSTOMER                                                                                            |            |                                                                                             |  |  | sheet 9 of 9 |
|                                                                                       |            |          |                                       |  |        |                                   |        |                                                                                                     |            |                                                                                             |  |  |              |
| catalog no                                                                            |            |          | *                                     |  |        |                                   |        |                                                                                                     |            |                                                                                             |  |  |              |