

## SUCO 0532 ELECTRONIC PRESSURE SWITCH

053210204B011  
NPN output (Low Side), NO, 0-100 Bar, NPT 1/8, Cable connection



- One Switching Output
- Stainless Steel & Titanium Wetted Parts
- Silicon-On-Sapphire Technology
- Factory Set



### PRODUCT DESCRIPTION

The SUCO 0532 electronic pressure switch is a high-performance, factory-set device featuring a compact hex-22 stainless steel housing with titanium-wetted parts and welded design, eliminating elastomer seals. It utilises advanced Silicon-on-Sapphire (SoS) sensor technology, ensuring exceptional accuracy ( $\pm 0.5\%$  FS) and long-term stability ( $\pm 0.1\%$  FS/year), and delivers reliable overpressure protection up to  $4\times$  the rated range. Available with a single NPN (low-side) normally-open transistor output capable of handling up to 0.5 A, it supports pressure ranges from 0–10 bar up to 0–600 bar. The 0532 offers a wide choice of process ports and electrical connections, and includes factory-set switching point and hysteresis, along with a fast response time of under 4 ms.

The 0532 is ideal for high-integrity industrial and mobile hydraulic applications, such as in construction equipment, off-road vehicles, and pneumatic systems, where compactness, precision, and reliability are crucial. Its robust SoS sensor and welded housing offer high resilience to vibration, transient pressures, and wash-down conditions, making it suitable for severe environmental exposure. The NPN output with normally open configuration and field-programmed hysteresis allows seamless integration into PLC and relay-controlled systems for safety interlocks, pressure monitoring, and automated shutdown scenarios. The switch's fast response and low moving-part design reduce wear and improve lifespan, making the SUCO 0532 a dependable solution in OEM systems requiring compact, rugged, and high-precision pressure switching.

## TECHNICAL DATA

### GENERAL DATA

|                       |                   |
|-----------------------|-------------------|
| Adjustment range max  | 100 bar           |
| Adjustment range min  | 0 bar             |
| Electrical connection | Embedded 2m cable |
| Process connection    | 1/8 NPT           |
| Function              | Normally open     |
| Output                | NPN               |
| Burst pressure        | 800 bar           |
| Pressure max          | 400 bar           |

TEMPERATURE & MATERIALS DATA

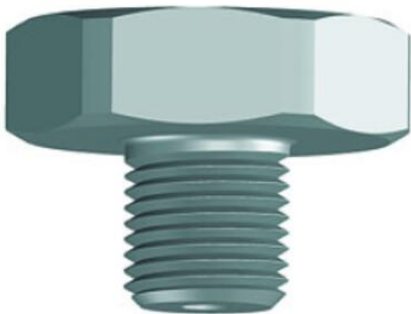
|                           |                                  |
|---------------------------|----------------------------------|
| Temperature of media from | -40 °C                           |
| Temperature of media to   | 125 °C                           |
| Temperature ambient from  | -40 °C                           |
| Temperature ambient to    | 100 °C                           |
| Material of body          | Stainless steel 1.4305           |
| Material of wetted parts  | Stainless steel 1.4305, Titanium |

ADDITIONAL DATA

|                                  |                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------|
| Supply voltage dc max            | 32 V DC                                                                            |
| Supply voltage dc min            | 9.6 V DC                                                                           |
| Pressure rise                    | ≤ 5,000 bar/s                                                                      |
| Switching time                   | < 2 ms                                                                             |
| Switching point adjustment range | 2 ... 100 % of the nominal pressure range Full Scale (FS), programmable at factory |
| Weight                           | 135 g                                                                              |

SAFETY & APPROVALS

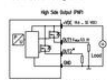
|                            |                                                                           |
|----------------------------|---------------------------------------------------------------------------|
| IP class                   | IP67                                                                      |
| Hysteresis                 | 2..99.8% of nominal pressure range (full scale), programmable at factory  |
| Shock resistance           | 500m / s²; 11 ms half sine wave; DIN EN 60068-2-27                        |
| Vibration resistance       | 20g; 4..2000 Hz sine wave, DIN EN 60068-2-6                               |
| EMC                        | EMC 2014/30/EU, EN 61000-6-2:2005, EN 61000-6-3:2007                      |
| Accuracy                   | ±0.5 % of adjustment range (Full scale) at room temperature               |
| Long term stability        | ±0.1 % of adjustment range (full scale) per year                          |
| Mechanical life expectancy | 10,000,000 switching cycles at rise rates to 5,000 bar/s nominal pressure |
| Repeatability              | ±0.1 % full scale                                                         |



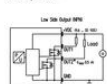


hex 22

Connection diagrams



For component depending on each connection  
\*NOT any for 05A



For component depending on each connection  
\*NOT any for 05A

Technical modifications and errors excepted.

| DIN EN 175301-803-A                                                                                                                                                                | M 12 - DIN EN 61076-2-101 A | ISO 15175-A1-4.1             | AMP Superseal     |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|-------------------|-----|---|----|---|-----|---|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|---|----|---|-----|---|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|----|----|-----|----|-------|-----|-------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|---|----|---|----|---|-----|---|-----|
|                                                                                                                                                                                    |                             |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| <table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>Out</td></tr><tr><td>2</td><td>In</td></tr><tr><td>3</td><td>Gnd</td></tr><tr><td>4</td><td>Out</td></tr></table> | Pin                         | Assignment                   | 1                 | Out | 2 | In | 3 | Gnd | 4 | Out | <table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>V+</td></tr><tr><td>2</td><td>In</td></tr><tr><td>3</td><td>Gnd</td></tr><tr><td>4</td><td>Out</td></tr></table> | Pin | Assignment | 1 | V+ | 2 | In  | 3 | Gnd | 4                                                                                                                                                                                        | Out | <table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>V+</td></tr><tr><td>2</td><td>In</td></tr><tr><td>3</td><td>Gnd</td></tr><tr><td>4</td><td>Out</td></tr></table> | Pin        | Assignment | 1  | V+ | 2   | In | 3     | Gnd | 4     | Out | <table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>V+</td></tr><tr><td>2</td><td>In</td></tr><tr><td>3</td><td>Gnd</td></tr><tr><td>4</td><td>Out</td></tr></table> | Pin | Assignment | 1 | V+ | 2 | In | 3 | Gnd | 4 | Out |
| Pin                                                                                                                                                                                | Assignment                  |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 1                                                                                                                                                                                  | Out                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 2                                                                                                                                                                                  | In                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 3                                                                                                                                                                                  | Gnd                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 4                                                                                                                                                                                  | Out                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Pin                                                                                                                                                                                | Assignment                  |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 1                                                                                                                                                                                  | V+                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 2                                                                                                                                                                                  | In                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 3                                                                                                                                                                                  | Gnd                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 4                                                                                                                                                                                  | Out                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Pin                                                                                                                                                                                | Assignment                  |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 1                                                                                                                                                                                  | V+                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 2                                                                                                                                                                                  | In                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 3                                                                                                                                                                                  | Gnd                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 4                                                                                                                                                                                  | Out                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Pin                                                                                                                                                                                | Assignment                  |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 1                                                                                                                                                                                  | V+                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 2                                                                                                                                                                                  | In                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 3                                                                                                                                                                                  | Gnd                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 4                                                                                                                                                                                  | Out                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| IP67                                                                                                                                                                               | IP67                        | IP67                         | IP67              |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| • 60 / 70 mm <sup>2</sup>                                                                                                                                                          | • 54 mm                     | • 65 mm (max)                | • 73 mm           |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| • Ø 10 mm                                                                                                                                                                          | • Ø 10 mm                   | • Ø 10 mm                    | • Ø 10 mm         |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Order number: 001                                                                                                                                                                  | Order number: 002           | Order number: 004            | Order number: 003 |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| * without copper braid (+) = 0 mm, with copper braid (+) = 70 mm                                                                                                                   |                             |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| DEUTSCH DT04-4P                                                                                                                                                                    | DEUTSCH DT04-3P             | Cable connection             |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
|                                                                                                                                                                                    |                             |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
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| Pin                                                                                                                                                                                | Assignment                  |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 1                                                                                                                                                                                  | Gnd                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 2                                                                                                                                                                                  | V+                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 3                                                                                                                                                                                  | In                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 4                                                                                                                                                                                  | Out                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Pin                                                                                                                                                                                | Assignment                  |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 1                                                                                                                                                                                  | V+                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 2                                                                                                                                                                                  | Gnd                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 3                                                                                                                                                                                  | In                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Cable                                                                                                                                                                              | Assignment                  |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 1                                                                                                                                                                                  | V+                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 2                                                                                                                                                                                  | Gnd                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 3                                                                                                                                                                                  | White                       |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 4                                                                                                                                                                                  | Black                       |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| IP67                                                                                                                                                                               | IP67                        | IP67                         |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| • 38 mm                                                                                                                                                                            | • 38 mm                     | • 64 mm                      |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| • Ø 10 mm                                                                                                                                                                          | • Ø 10 mm                   | Ø 20 mm (cable length = 2 m) |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Order number: 004                                                                                                                                                                  | Order number: 005           | Order number: 011            |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
|                                                                                                                                                                                    |                             |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Thread code: 01                                                                                                                                                                    | Thread code: 02             | Thread code: 03              | Thread code: 04   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
|                                                                                                                                                                                    |                             |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Thread code: 05                                                                                                                                                                    | Thread code: 06             | Thread code: 07              | Thread code: 08   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
|                                                                                                                                                                                    |                             |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Thread code: 09                                                                                                                                                                    | Thread code: 10             | Thread code: 11              | Thread code: 12   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                          |     |                                                                                                                                                                                   |            |            |    |    |     |    |       |     |       |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |

| DIN EN 175301-803-A                                                                                                                                                                | M 12 - DIN EN 61076-2-101 A | ISO 15175-A1-4.1             | AMP Superseal     |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|-------------------|-----|---|----|---|-----|---|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|---|----|---|-----|---|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|----|------|----|-------|-----|-------|-----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|---|----|---|----|---|-----|---|-----|
|                                                                                                                                                                                    |                             |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| <table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>Out</td></tr><tr><td>2</td><td>In</td></tr><tr><td>3</td><td>Gnd</td></tr><tr><td>4</td><td>Out</td></tr></table> | Pin                         | Assignment                   | 1                 | Out | 2 | In | 3 | Gnd | 4 | Out | <table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>V+</td></tr><tr><td>2</td><td>In</td></tr><tr><td>3</td><td>Gnd</td></tr><tr><td>4</td><td>Out</td></tr></table> | Pin | Assignment | 1 | V+ | 2 | In  | 3 | Gnd | 4                                                                                                                                                                                                | Out | <table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>V+</td></tr><tr><td>2</td><td>In</td></tr><tr><td>3</td><td>Gnd</td></tr><tr><td>4</td><td>Out</td></tr></table> | Pin        | Assignment | 1  | V+   | 2  | In    | 3   | Gnd   | 4   | Out | <table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>V+</td></tr><tr><td>2</td><td>In</td></tr><tr><td>3</td><td>Gnd</td></tr><tr><td>4</td><td>Out</td></tr></table> | Pin | Assignment | 1 | V+ | 2 | In | 3 | Gnd | 4 | Out |
| Pin                                                                                                                                                                                | Assignment                  |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 1                                                                                                                                                                                  | Out                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 2                                                                                                                                                                                  | In                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 3                                                                                                                                                                                  | Gnd                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 4                                                                                                                                                                                  | Out                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Pin                                                                                                                                                                                | Assignment                  |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 1                                                                                                                                                                                  | V+                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 2                                                                                                                                                                                  | In                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 3                                                                                                                                                                                  | Gnd                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 4                                                                                                                                                                                  | Out                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Pin                                                                                                                                                                                | Assignment                  |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 1                                                                                                                                                                                  | V+                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 2                                                                                                                                                                                  | In                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 3                                                                                                                                                                                  | Gnd                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 4                                                                                                                                                                                  | Out                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Pin                                                                                                                                                                                | Assignment                  |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 1                                                                                                                                                                                  | V+                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 2                                                                                                                                                                                  | In                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 3                                                                                                                                                                                  | Gnd                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 4                                                                                                                                                                                  | Out                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| IP67                                                                                                                                                                               | IP67                        | IP67                         | IP67              |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| • 60 / 70 mm <sup>2</sup>                                                                                                                                                          | • 54 mm                     | • 65 mm (max)                | • 73 mm           |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| • Ø 10 mm                                                                                                                                                                          | • Ø 10 mm                   | • Ø 10 mm                    | • Ø 10 mm         |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Order number: 001                                                                                                                                                                  | Order number: 002           | Order number: 004            | Order number: 003 |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| * without copper cable = Ø 10 mm, with copper cable = 15 mm                                                                                                                        |                             |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| DEUTSCH DT04-4P                                                                                                                                                                    | DEUTSCH DT04-3P             | Cable connection             |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
|                                                                                                                                                                                    |                             |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| <table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>Gnd</td></tr><tr><td>2</td><td>V+</td></tr><tr><td>3</td><td>In</td></tr><tr><td>4</td><td>Out</td></tr></table>  | Pin                         | Assignment                   | 1                 | Gnd | 2 | V+ | 3 | In  | 4 | Out | <table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>V+</td></tr><tr><td>2</td><td>Gnd</td></tr><tr><td>3</td><td>In</td></tr></table>                                | Pin | Assignment | 1 | V+ | 2 | Gnd | 3 | In  | <table><tr><th>Cable</th><th>Assignment</th></tr><tr><td>red</td><td>V+</td></tr><tr><td>blue</td><td>In</td></tr><tr><td>white</td><td>Gnd</td></tr><tr><td>black</td><td>Out</td></tr></table> |     | Cable                                                                                                                                                                             | Assignment | red        | V+ | blue | In | white | Gnd | black | Out |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Pin                                                                                                                                                                                | Assignment                  |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 1                                                                                                                                                                                  | Gnd                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 2                                                                                                                                                                                  | V+                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 3                                                                                                                                                                                  | In                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 4                                                                                                                                                                                  | Out                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Pin                                                                                                                                                                                | Assignment                  |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 1                                                                                                                                                                                  | V+                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 2                                                                                                                                                                                  | Gnd                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| 3                                                                                                                                                                                  | In                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Cable                                                                                                                                                                              | Assignment                  |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| red                                                                                                                                                                                | V+                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| blue                                                                                                                                                                               | In                          |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| white                                                                                                                                                                              | Gnd                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| black                                                                                                                                                                              | Out                         |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| IP67                                                                                                                                                                               | IP67                        | IP67                         |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| • 38 mm                                                                                                                                                                            | • 38 mm                     | • 64 mm                      |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| • Ø 10 mm                                                                                                                                                                          | • Ø 10 mm                   | Ø 20 mm (cable length = 2 m) |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Order number: 006                                                                                                                                                                  | Order number: 010           | • Ø 10 mm                    |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Order number: 008                                                                                                                                                                  | Order number: 011           | Order number: 011            |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
|                                                                                                                                                                                    |                             |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Thread code: 01                                                                                                                                                                    | Thread code: 02             | Thread code: 03              | Thread code: 04   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
|                                                                                                                                                                                    |                             |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Thread code: 05                                                                                                                                                                    | Thread code: 06             | Thread code: 07              | Thread code: 08   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
|                                                                                                                                                                                    |                             |                              |                   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |
| Thread code: 09                                                                                                                                                                    | Thread code: 10             | Thread code: 11              | Thread code: 12   |     |   |    |   |     |   |     |                                                                                                                                                                                   |     |            |   |    |   |     |   |     |                                                                                                                                                                                                  |     |                                                                                                                                                                                   |            |            |    |      |    |       |     |       |     |     |                                                                                                                                                                                   |     |            |   |    |   |    |   |     |   |     |