FEATURES

- AS-i sensor
- A/B slave with extended addressing possibility for up to 62 devices
- Interoperable with higher-level BUS systems
- Protection degree IP67
- Communication monitoring, turn-off
- System cable supports power and data

- Lead breakage and short-circuit monitoring of solenoid valve
- Two M20 x 1.5 system connections
- One M12 x 1.5 valve connection
- Large terminal space for ease of wiring
- Sensor electronics sealed from terminal compartment

TECHNICAL DATA

**General specifications**
- Switching element function: Programmable
- Rated operating distance $S_a$: 3 mm
- Installation: Flush mountable
- Output polarity: AS-Interface
- Assured operating distance $S_m$: 0 ... 2.43 mm
- Slave type: A/B slave
- AS-Interface specification: V3.0
- Required master specification: $\geq V2.1$

**Nominal ratings**
- Operating voltage $U_m$: 26.5 ... 31.9 V via AS-i bus system
- Switching frequency $f$: 0 ... 100 Hz
- No-load supply current $I_0$: $\leq 35$ mA

**Functional safety related parameters**
- MTTFd: 842 a
- Mission Time ($T_m$): 20 a
- Diagnostic Coverage (DC): 0 %

**Indicators/operating means**
- LED PWR: AS-Interface voltage; LED green
- LED IN: Switching state (input); LED yellow
- LED OUT: Binary LED yellow/red; yellow: switching state red: lead breakage/short-circuit

**Electrical specifications**
- Rated operational voltage $U_e$: 26.5 ... 31.6 V from AS-Interface
- Rated operational current $I_e$: 100 mA

**Ambient conditions**
- Ambient temperature $T_A$: -25 ... 70 °C (-13 ... 158 °F)

**Mechanical specifications**
- Connection (system side): Screw terminals, M20 x 1.5, Cable gland, Qty 2
- Core cross-section (system side): 1.5/2.5 mm² flexible/rigid
- Connection (valve side): Screw terminals M12 x 1.5, Cable gland, Qty 1
- Core cross-section (valve side): 1.5/2.5 mm² flexible/rigid
- Housing material: PBT
- Sensing face material: PBT
- Degree of protection: IP67
- Tightening torque, housing screws: 1 Nm
- Tightening torque, cable gland: M20 x 1.5; $\leq 7$ Nm
  M12 x 1.5; $\leq 3$ Nm
- Note: Valve voltage limited to 26.4 V max.; valve power 2.5 W max.

**Standard conformity**
- Electromagnetic compatibility: EN 50295:1999-10
  EN 60947-5-2:IEEE 12012
- Approvals and certificates
  - UL approval: cULus listed, general purpose
  - CCC approval: Approval and marking not required for products rated $\leq 36$ V
ACTIVATOR AND MOUNTING KITS

30 x 80 mm NAMUR Mounting, adjustable
54063A-14800536 Fits Bray S92/93 Sizes 63 to 128 - Imperial
54063A-14850536 Fits Bray S92/93 Sizes 63 to 128 and Series 98 - Metric

30 x 130 mm NAMUR Mounting, adjustable
54160A-14800536 Fits Bray S92/93 Sizes 160 to 210 - Imperial
54160A-14850536 Fits Bray S92/93 Sizes 160 to 255 - Metric

30 x 80 mm NAMUR Mounting, adjustable, High Visibility
54063C-14800536 Fits Bray S92/93 Sizes 63 to 128 - Imperial
54063C-14850536 Fits Bray S92/93 Sizes 63 to 128 and Series 98 - Metric

30 x 130 mm NAMUR Mounting, adjustable, High Visibility
54160C-14800536 Fits Bray S92/93 Size 160 - Imperial
54160C-14850536 Fits Bray S92/93 Size 160 - Metric
54210C-14800536 Fits Bray S92/93 Size 210 - Imperial
54210C-14850536 Fits Bray S92/93 Sizes 210 to 255 - Metric

WIRING DIAGRAM

APPLICATION

Note: The connections to this sensor are sealed with stopping plugs to protect against dirt and moisture. If your application does not require the use of all connections, permanently seal stopping plugs onto unused connections or ensure that stopping plugs are secure and impermeable during initial installation and when performing regular maintenance work. If necessary, re-tighten the stopping plugs to a torque of 1 Nm.

ACCESSORIES

090005-76148533 S-Connector cordset (S60) - Form A solenoid connector (DIN 43650) (2C+Ground) to flying leads, 3 conductor, PUR, 5 meters

600250-21540536 Series 60 -Solenoid Valve, low power (0.7W), NAMUR mount 5/2, Form A connector (DIN 43560), IP65, single 24vdc coil

SUPPLEMENTARY INFORMATION

Programming Instructions
Address 00 preset, alterable via Busmaster or programming units
IO-code D
ID-code A
ID1-code 7
ID2-code E

Data bit
Bit Function
D0 valve status
(0= valve OFF, 1= valve ON)
D1 valve fault 1)
(0= lead breakage/short circuit;
1= no fault)
D2 switch output sensor 12)
(0= damped; 1= undamped)
D3 switch output sensor 23)
(0= damped; 1= undamped)

Parameter bit
Bit Function
P0 Watchdog
(0= inactive; 1= active3)
P1 switching element function sensor II 4)
(0= NO; 1= NC)
P2 switching element function sensor I 4)
(0= NO; 1= NC)
P3 not used

1) Verification only with actuated valve (D0=1)
2) Applies to NC function (P2/P3=1; preset), with NO function (P2/P3=0) reversed characteristics
3) Watchdog active: valve voltage drops with the occurrence of an AS-I communication fault
4) Default setting: NC