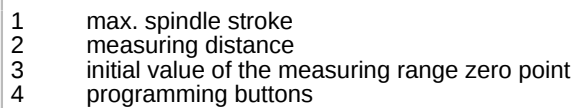


## IX-2080-AS-i/0,15M/US

Discontinuation date: 03/31/2027



|                   |               |
|-------------------|---------------|
| Electrical design | AS-i          |
| Dimensions [mm]   | 65 x 52 x 110 |



## Position sensor for rising stem valves

IX-2080-AS-i/0,15M/US

| Application                 |             |                                                                                                                                                        |                                                                                        |                                 |               |
|-----------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------|---------------|
| Application                 |             | position feedback for linear single and double seat valves;<br>absolute distance measurement; monitoring of the valve seal                             |                                                                                        |                                 |               |
| Electrical data             |             |                                                                                                                                                        |                                                                                        |                                 |               |
| Operating voltage           | [V]         | 26.5...31.6 DC                                                                                                                                         |                                                                                        |                                 |               |
| Current consumption         | [mA]        | < 50                                                                                                                                                   |                                                                                        |                                 |               |
| Protection class            |             | III                                                                                                                                                    |                                                                                        |                                 |               |
| Reverse polarity protection |             | yes                                                                                                                                                    |                                                                                        |                                 |               |
| Max. power-on delay time    | [ms]        | 2000                                                                                                                                                   |                                                                                        |                                 |               |
| Outputs                     |             |                                                                                                                                                        |                                                                                        |                                 |               |
| Electrical design           |             | AS-i                                                                                                                                                   |                                                                                        |                                 |               |
| Detection zone              |             |                                                                                                                                                        |                                                                                        |                                 |               |
| Measuring range             | [mm]        | 0...80                                                                                                                                                 |                                                                                        |                                 |               |
| Max. target speed           | [m/s]       | 1                                                                                                                                                      |                                                                                        |                                 |               |
| Resolution of valve stroke  | [mm]        | 0.2                                                                                                                                                    |                                                                                        |                                 |               |
| Target                      |             | cylindrical disc                                                                                                                                       |                                                                                        |                                 |               |
|                             | -           | Ø 24 mm ±0,05 mm                                                                                                                                       |                                                                                        |                                 |               |
|                             | -           | minimum height 10 mm                                                                                                                                   |                                                                                        |                                 |               |
|                             | -           | flat surface                                                                                                                                           |                                                                                        |                                 |               |
|                             | -           | stainless steel to DIN17440, material number 316S12/1.4404.                                                                                            |                                                                                        |                                 |               |
| Software / programming      |             |                                                                                                                                                        |                                                                                        |                                 |               |
| Parameter setting options   |             | 3 switch points to be freely defined within the measuring range                                                                                        |                                                                                        |                                 |               |
| Operating conditions        |             |                                                                                                                                                        |                                                                                        |                                 |               |
| Ambient temperature         | [°C]        | -25...70                                                                                                                                               |                                                                                        |                                 |               |
| Protection                  |             | IP 65; IP 67; (only in conjunction with an installation in the valve head that provides sufficient protection against mechanical damage of the sensor) |                                                                                        |                                 |               |
| Tests / approvals           |             |                                                                                                                                                        |                                                                                        |                                 |               |
| Vibration resistance        |             | EN 60068-2-6 Fc                                                                                                                                        | 1 mm (10...55 Hz) / 1 octave per minute in 3 axes                                      |                                 |               |
| Shock resistance            |             | EN 60068-2-27 Ea                                                                                                                                       | 30 g 11 ms half sine; 6 shocks each in every direction along the three coordinate axes |                                 |               |
| MTTF                        | [years]     | 281                                                                                                                                                    |                                                                                        |                                 |               |
| AS-i classification         |             |                                                                                                                                                        |                                                                                        |                                 |               |
| AS-i version                |             | 3.0                                                                                                                                                    |                                                                                        |                                 |               |
| Extended addressing mode    |             | yes                                                                                                                                                    |                                                                                        |                                 |               |
| AS-i I/O configuration      | [hex]       | 0                                                                                                                                                      |                                                                                        |                                 |               |
| AS-i ID code                | [hex]       | A.F                                                                                                                                                    |                                                                                        |                                 |               |
| Assignment of the data bits | Designation | close                                                                                                                                                  | seat                                                                                   | open                            | not used      |
|                             | status = 0  | plunger outside the 'close' zone                                                                                                                       | plunger outside the 'seat' zone                                                        | plunger outside the 'open' zone | default value |
|                             | status = 1  | plunger inside the 'close' zone                                                                                                                        | plunger inside the 'seat' zone                                                         | plunger inside the 'open' zone  | -             |
| Mechanical data             |             |                                                                                                                                                        |                                                                                        |                                 |               |
| Weight                      | [g]         | 219.5                                                                                                                                                  |                                                                                        |                                 |               |
| Type of mounting            |             | 3-hole flange                                                                                                                                          |                                                                                        |                                 |               |

IX5030



Position sensor for rising stem valves

IX-2080-AS-i/0,15M/US

|            |                  |               |
|------------|------------------|---------------|
| Dimensions | [mm]             | 65 x 52 x 110 |
| Materials  | PA; TPE; PP; LCP |               |

Displays / operating elements

|         |                  |                             |
|---------|------------------|-----------------------------|
| Display | switching status | 1 x LED, green open         |
|         | switching status | 1 x LED, yellow seat        |
|         | switching status | 1 x LED, red close          |
|         | operation        | 1 x LED, green AS-i voltage |
|         | error            | 1 x LED, red                |

Accessories

|                |           |
|----------------|-----------|
| Items supplied | screws: 3 |
|----------------|-----------|

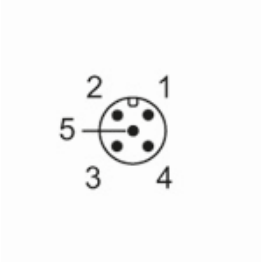
Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

Electrical connection - plug

Cable: 0.15 m, PVC; 2 x 0.14 mm²

Connector: 1 x M12; coding: A



Connection

