

Pipe element (Special)

Pilot pipe

Pipe for extinguishing pipework and pilot pipes



SAP designation

part no. 823563: Pipe 6x1 B-210-2394/1

Maintenance

functional check within the framework of system-specific functional test

Designation		Part no.	Nominal diameter	Test pressure bar (psi)	Weight kg (lbs)
Pipe	6x1 B-210-2394/1	823563 ¹⁾	DN4	210 (3045)	0.3 (0.06)
	10x1 B-210-2394/1	823575 ¹⁾	DN8	210 (3045)	0.22 (0.10)
	15x1.5 B-90-2391	240020	DN12	90 (1305)	0.50 (0.23)

¹⁾ Marked by black heat shrink sleeve at both pipe ends

Technical Data

Materialsteel, galvanized
 Pipe 6 x 1 and 10 x 1acc. to DIN2394
 15 x 1.5acc. to DIN2391
 Test certificateEN 10204 - 3.1 (material and pressure test)

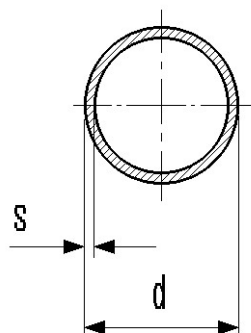
Application

Precision steel pipe are used for extinguishing pipework and pilot pipes in:

- CO₂- high pressure fire extinguishing systems
- CO₂- low pressure fire extinguishing systems
- Argon-, Nitrogen-, IG-55-, IG-541 fire extinguishing systems
- Halocarbon fire extinguishing systems

Dimension drawing

Dimensions in mm (inch)



Pipe	d	s
6x1	6 (0.24)	1 (0.04)
10x1	10 (0.39)	1 (0.04)
15x1.5	15 (0.59)	1.5 (0.06)

Pipe element (Special)

Pipe threaded connection

Pipe threaded connection DN15 - 80



SAP designation

e.g. part no. 776685: Pipe 21,3x2,6 St37.0-B-90-2458

Maintenance

Functional check during the maintenance intervals specific to the fire extinguishing system, but at least annually.

DN	Application									Part no.	Test pressure bar	Test certificate	Surface ¹⁾	Colour coding
	1	2	3	4	5	6	7	8	9					
15	•		•							776685	90	3.1	B	blue
	1	2	3	4	5	6	7	8	9					
20	•		•							776697	90	3.1	B	blue
	1	2	3	4	5	6	7	8	9					
25	•	•								872766	50	3.1	A	gold
25	•		•							776703	90	3.1	B	blue
25					•					840983	210	3.1	B	orange
	1	2	3	4	5	6	7	8	9					
32	•		•							776715	90	3.1	B	blue
32	•	•								872778	50	3.1	A	gold
	1	2	3	4	5	6	7	8	9					
40	•	•								872780	50	3.1	A	gold
40	•		•							776727	90	3.1	B	blue
	1	2	3	4	5	6	7	8	9					
50	•		•							776739	90	3.1	B	blue
50					•					841057	210	3.1	A	orange
50					•					886346	210	3.1	B	orange
50						•				885208	353	3.1	B	red
50							•			886126	548	3.1	B	purple
	1	2	3	4	5	6	7	8	9					
65	•		•							776740	90	3.1	B	blue
65					•					886347	210	3.1	B	orange
65						•	•			886124	548	3.1	B	purple
	1	2	3	4	5	6	7	8	9					
80	•		•							847874	90	3.1	B	blue
80	•	•						•		776788	50	3.1	A	gold
80			•							841148	90	3.1	A	blue

¹⁾ A = Steel pipe, black (blank)

B = Steel pipe, thermal galvanized

Application

1 = CO₂ LP system30 bar (435 psi)
 2 = CO₂ LP manifold socket30 bar (435 psi)
 3 = CO₂ HD / Ar / N₂ / IG-55 / IG-541 downsystem piping and Halocarbon / ConstantFlow (CF) system60 bar (870 psi)
 4 = CO₂ HP shipbuilding100 bar (1450 psi)







5 = CO₂ HP upstream piping140 bar (2031 psi)
 6 = Ar / N₂ / IG-55 / IG-541 - upstream piping ...235 bar (3408 psi)
 7 = Ar / N₂ / IG-55 / IG-541 - 300 bar HP upstream piping365 bar (5294 psi)
 8 = CO₂ LP base manifold30 bar (435 psi)
 9 = CO₂ HP base manifold140 bar (2031 psi)

Pipe element (Special)

Fitting threaded connection

Fittings - type D, EN 10242 galvanized



Designation	Feature	Part no.	Weight kg (lbs)
Elbow A1 	1/2	747921	0.09 (0.20)
	3/4	747933	0.14 (0.31)
	1	747945	0.19 (0.42)
	1.1/4	747957	0.35 (0.77)
	1.1/2	747969	0.38 (0.84)
	2	747970	0.59 (1.30)
	2 x 1	790307	0.54 (1.14)
	2.1/2	757694	0.94 (2.07)
	3	886833	1.63 (3.59)
Elbow A4-45° 	1/2	886491	0.08 (0.18)
Elbow A4-90° 	1/2	4001639	0.11 (0.25)
T B1 	1/2	747982	0.12 (0.26)
	3/4	747994	0.17 (0.37)
	1	749516	0.30 (0.66)
	1.1/4	749530	0.44 (0.97)
	1.1/2	749577	0.50 (1.10)
	2	749590	0.92 (2.03)
	2.1/2	777422	1.56 (3.44)
	3	886097	2.19 (4.83)
	3/4 x 1/2 x 3/4	748007	0.15 (0.33)
	1 x 1/2 x 1	888063	0.32 (0.71)
	1 x 3/4 x 1	749528	0.26 (0.57)
	1.1/4 x 3/4 x 1	749541	0.27 (0.60)
	1.1/4 x 1/2 x 1.1/4	888064	0.40 (0.88)
	1.1/4 x 3/4 x 1.1/4	749553	0.29 (0.64)
	1.1/4 x 1 x 1.1/4	749565	0.33 (0.73)
	1.1/2 x 1/2 x 1.1/2	888065	0.47 (1.04)
	1.1/2 x 3/4 x 1.1/2	749589	0.36 (0.79)
	2 x 1/2 x 2	888066	0.72 (1.59)
	2 x 3/4 x 2	888068	0.70 (1.54)
	2 x 1 x 2	749607	0.55 (1.21)
	2 x 1.1/4 x 2	790186	0.61 (1.34)
	2 x 1.1/2 x 2	790198	0.65 (1.43)
	2.1/2 x 1.1/2 x 2.1/2	923759	1.18 (2.60)


Designation	Feature	Part no.	Weight kg (lbs)
Plug T9 	1/2	817984	0.05 (0.11)
	1	818654	0.12 (0.26)
	1.1/4	818666	0.20 (0.44)
	1.1/2	818678	0.23 (0.51)
	2	759800	0.37 (0.82)
	2.1/2	923785	0.67 (1.48)
Cap T1 	1/2	749887	0.05 (0.11)
	3/4	749899	0.08 (0.18)
	1	749905	0.11 (0.24)
	1.1/4	749917	0.17 (0.37)
	1.1/2	749929	0.23 (0.51)
	2	749930	0.38 (0.84)
	2.1/2	757724	0.62 (1.37)
Union U11 	3	764800	0.84 (1.85)
	1/2	757669	0.22 (0.49)
	3/4	749942	0.27 (0.6)
	1	749954	0.36 (0.79)
	1.1/4	749966	0.61 (1.34)
	1.1/2	749978	0.75 (1.65)
	2	749980	1.24 (2.73)
Union U12 	2.1/2	819040	1.84 (4.06)
	3	886837	2.50 (5.51)
	1/2	818540	0.20 (0.44)
Hex. nipple N8 	1/2	749826	0.07 (0.15)
	3/4	749838	0.10 (0.22)
	1	749840	0.15 (0.33)
	1.1/4	749851	0.23 (0.51)
	1.1/2	749863	0.30 (0.66)
	2	749875	0.48 (1.06)
	2.1/2	923783	0.61 (1.34)
	3	923784	0.94 (2.07)
Hex. nipple, reduced N8 	1/2 x 1/4	857008	0.05 (0.11)
	2.1/2 x 2	923774	0.77 (1.70)
	3 x 2	923775	0.99 (2.18)

Pipe element (Special)

Fitting threaded connection

Fittings - type D, EN 10242 galvanized

Designation	Feature	Part no.	Weight kg (lbs)
 Socket M2	1/2	749760	0.06 (0.13)
	3/4	749772	0.08 (0.18)
	1	749784	0.12 (0.26)
	1.1/4	749796	0.19 (0.42)
	1.1/2	749802	0.26 (0.57)
	2	749814	0.42 (0.93)
	2.1/2	762372	0.66 (1.46)
	3	886834	1.10 (2.43)
 Socket, reduced M2	3/4 x 1/2	923760	0.10 (0.22)
	1 x 1/2	923791	0.18 (0.40)
	1 x 3/4	749619	0.12 (0.26)
	1.1/4 x 1/2	923761	0.20 (0.44)
	1.1/4 x 3/4	749620	0.19 (0.42)
	1.1/4 x 1	923762	0.23 (0.51)
	1.1/2 x 3/4	923763	0.28 (0.62)
	1.1/2 x 1	923764	0.27 (0.60)
	1.1/2 x 1.1/4	923765	0.30 (0.66)
	2 x 1	923766	0.42 (0.93)
	2 x 1.1/4	749632	0.45 (0.99)
	2 x 1.1/2	923767	0.47 (1.04)
	2.1/2 x 1.1/4	923768	0.61 (1.34)
	2.1/2 x 1.1/2	923769	0.73 (1.61)
	2.1/2 x 2	923770	0.82 (1.81)
	3 x 1.1/2	923771	0.95 (2.09)
	3 x 2	923772	0.99 (2.18)
	3 x 2.1/2	923773	1.06 (2.34)

Designation	Feature	Part no.	Weight kg (lbs)
 Reducing nipple N4	1/2 x 1/4	749644	0.04 (2.29)
	3/4 x 1/2	749656	0.05 (2.31)
	1 x 3/8	768994	0.10 (0.22)
	1 x 1/2	749668	0.10 (0.22)
	1 x 3/4	749670	0.08 (0.18)
	1.1/4 x 1/2	923776	0.21 (0.46)
	1.1/4 x 3/4	749681	0.16 (0.35)
	1.1/4 x 1	749693	0.13 (0.29)
	1.1/2 x 1/2	923777	0.26 (0.57)
	1.1/2 x 3/4	749700	0.22 (0.49)
	1.1/2 x 1	749711	0.20 (0.44)
	1.1/2 x 1.1/4	749723	0.13 (0.29)
	2 x 1	749735	0.41 (0.90)
	2 x 1.1/4	749747	0.35 (0.77)
	2 x 1.1/2	749759	0.27 (0.6)
	2.1/2 x 1.1/4	923778	0.58 (1.28)
	2.1/2 x 1.1/2	923779	0.69 (1.52)
	2.1/2 x 2	757980	0.49 (1.08)
	3 x 1.1/2	923781	0.82 (1.81)
	3 x 2	923782	1.05 (2.31)
	3 x 2.1/2	886835	0.65 (1.43)

Technical Data

Test pressure 160 bar (2320 psi), single test
 or 300 bar (4351 psi), type test
 Operating temperature up to -50 °C (-58 °F)
 Material malleable cast iron, galvanized
 EN-GJMB-350-10 oder EN-GJMW-400-5
 Test certificate EN 10204 - 2.2
 Thread according to ISO 7/1, cone
 Marking with stamped D and red colour point

Application

- CO₂ high pressure downstream piping 60 bar (870 psi)
- CO₂ low pressure system 30 bar (435 psi)
- Ar / N₂ / IG-55 / IG-541:
 - downstream piping (after pressure reducer) 60 bar (870 psi)
 - ConstantFlow (CF) system 60 bar (870 psi)
- Halocarbon (HFC 227ea) system 60 bar (870 psi)
- Halocarbon (FK-5-1-12) system 60 bar (870 psi)



Manual call points

DMX indoor application, addressable

HME/5015/32/18/04 Emergency button, blue



Technical specifications

Function	Type B, non-latching contact
Technic / protocol	XP95
Integrated short circuit insulator	yes
Number of detectors per loop for mixed automatic and manual	max. 20 units.
Operating voltage	18 - 28 V DC
Operating current	typ. 180 µA
Alarm current	3.5 mA
Alarm display	1 LED, red
IP rating with Protection kit	IP43 IP54
Enclosure material	Diecast aluminum
Color	blue, similar RAL 5015
Operating temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Relative humidity	5 to 95% no condensation
Specification acc. to	EN 12094-3, EN 54-17
Weight	420 g (0.93 lbs)
Dimensions	126 x 126 x 35 mm (WxHxD) 5.0 x 5.0 x 1.4 inch (WxHxD)
Cable entries: on top / bottom back side	2 x M20x1.5 2 x 24x10 mm (0.4 inch)

Part no.: 4004722

Analog addressable manual call point for indoor areas, in accordance with EN 12094-3 and EN 54-17. An additional weatherproof enclosure with seal set is separately available. Applicable for operation in fire alarm panels with XP95 protocol. Addressing via push button, the address can also be modified after installation. Labeling front: „STOPP-TASTER Gaslöschanlagen“. Back side: „Stopp-Taster Feuerlöschanlage“. Markings or labels which do not comply with the standard will void the VdS and EN 12094-3 approvals.

Attention

For the use of these detectors in conformity with standards with Clunid control panels in accordance with EN 12094 the maximum number of detectors per loop is reduced to 20 units.

Included in delivery

1 Paper inlay „Out of order“

Not included in delivery

Mounting hardware
Battery cable 917329
Monobloc battery 9 V

Connecting / mounting

Connecting cable 2-wire
Recommended cable, standard 747180
J-Y(ST)Y-2x2x0,8 mm
Recommended cable for circuit integrity 907940
JE-H(ST)H E30 2x2x0,8 mm
Conductor cross-section max. 2.5 mm² (AWG 13)
Electrostatic shielding not required

Optional accessories

Weatherproof enclosure blue 4004910
Protection kit HME to IP54 4004915
Door key HME (PU=10 pcs.) 4004913
Glass sheet HME (PU=10 pcs.) 4004914

Note

The product has an integrated short circuit isolator. To set the address the manual call point has to be powered. The power supply can either be realized by connecting the device to the loop or by using a battery cable, part no. 917329, and a common 9 V monobloc battery.

Approvals / marking



G 218058



0786-CPR-21602



Manual call points

DMX indoor application, addressable

HME/1021/32/17/04 Manual release, yellow



Part no.: 4004719

Analog addressable manual call point for indoor areas, in accordance with EN 12094-3 and EN 54-17. An additional weatherproof enclosure with seal set is separately available. Applicable for operation in fire alarm panels with XP95 protocol. Addressing via push button, the address can also be modified after installation. Labeling front: „HANDAUSLÖSUNG-Gaslöschanlage“. Back side: „HANDAUSLÖSUNG-Feuerlöschanlage“. Markings or labels which do not comply with the standard will void the VdS and EN 12094-3 approvals.

Technical specifications

Function	Type B, latching contact
Technic / protocol	XP95
Integrated short circuit insulator	yes
Number of detectors per loop for mixed automatic and manual	max. 126 units.
Operating voltage	18 - 28 V DC
Operating current	typ. 180 µA
Alarm current	3.5 mA
Alarm display	1 LED, red
IP rating with Protection kit	IP43 IP54
Enclosure material	Diecast aluminum
Color	yellow, similar RAL 1021
Operating temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Relative humidity	5 to 95% no condensation
Specification acc. to	EN 12094-3, EN 54-17
Weight	420 g (0.93 lbs)
Dimensions	126 x 126 x 35 mm (WxHxD) 5.0 x 5.0 x 1.4 inch (WxHxD)
Cable entries: on top / bottom back side	2 x M20x1.5 2 x 24x10 mm (0.4 inch)

Included in delivery

1 Paper inlay „Out of order“
Sign sheet multilingual (EN, IT, FR, ES, PT, PL)

Not included in delivery

Mounting hardware
Battery cable 917329
Monobloc battery 9 V

Connecting / mounting

Connecting cable 2-wire
Recommended cable, standard 747180
J-Y(ST)Y-2x2x0,8 mm
Recommended cable for circuit integrity 907940
JE-H(ST)H E30 2x2x0,8 mm
Conductor cross-section max. 2.5 mm² (AWG 13)
Electrostatic shielding not required

Optional accessories

Weatherproof enclosure yellow 4004911
Protection kit HME to IP54 4004915
Door key HME (PU=10 pcs.) 4004913
Glass sheet HME (PU=10 pcs.) 4004914

Note

The product has an integrated short circuit isolator. To set the address the manual call point has to be powered. The power supply can either be realized by connecting the device to the loop or by using a battery cable, part no. 917329, and a common 9 V monobloc battery.

Approvals / marking



G 218057



0786-CPR-21601



Standard detectors

Optical smoke detectors, addressable

Optical smoke detector OMX95



Product features

- Constant function monitoring of the sensors, software and hardware including the microcontroller
- Non-volatile memory for detector data
- Day/night switching via fire alarm panel with different sensitivities

Technical specifications

Detection method	Infrared photo diode
Technology / protocol	Loop AP / Discovery
Integrated isolator	no
Operating voltage	17 V - 28 V DC
Quiescent current	0.44 mA
Alarm current	3.4 mA
Alarm indication	2 red LEDs
Operating temperature	-40 °C to +70 °C (-40 °F to 158 °F)
IP rating (EN 60529)	IP 44
Enclosure material	white polycarbonate
Relative humidity	0 to 95% no condensation
Specification according to	EN 54-7
Weight	105 g (0.2 lbs)
Dimensions	100 x 42 mm (dia. x H) 3.9 x 1.7 inch (dia.xH)

Part no.: 907541

Analog addressable optical smoke detector. Designed for use in areas where only low false alarm sources can be expected. Applicable for operation in fire alarm panel FMZ 5000/DCP-1 with Loop AP protocol. 5 sensitivity modes, adjustable via software control. Addressing via separate address card. The address can also be changed after installation.

Not included in delivery

Detector base see accessories
Address card ACX SA 8 925988

Connection / mounting

Connection cable 2-wire
Recommended cable, standard 747180
J-Y(ST)Y-2x2x0.8 mm
Conductor cross-section max. 2.5 mm² (AWG 13)
Electrostatic shielding not required

Sensitivity modes

	smoke	t _{min} alarm
1	1.4 % / m (39.4 inch)	5 s
2	1.4 % / m (39.4 inch)	30 s
3	2.1 % / m (39.4 inch)	5 s
4	2.1 % / m (39.4 inch)	30 s
5	2.8 % / m (39.4 inch)	5 s

Note

The response sensitivity must be adjusted to the environmental conditions. The settings can be changed at any time.

Approvals / marking



G 208033



2531-CPR-CSP10944



Optical smoke detector OMX95 SIL

Part no.: 927182

Otherwise like part no. 907541

Approvals / marking



2531-CPR-CSP10942

ESC (SIL2)

Extinguishing technology Halocarbon agents

Cylinder Halocarbon agents assembled

Extinguishing agent cylinder UL/FM (drawn) 22 l, 40 l, 80 l, 140 l, 180 l



Approvals



- 1) Part of the system approval Fireking CAS FK
- 2) Listed system covered by UL-file EX28666 (Fireking CAS FK).
Extinguishing agent cylinders must only be filled by refilling companies which are listed in UL-File EX28666
- 3) Valve type B and B25 without UL / ULC approval
- 4) Part of the system approval

Maintenance

see technical description valve B0481 DN49 / B0482 DN33
part no. 887866

Pressure at 21 °C (70 °F) bar (psi)	Steel cylinder ⁷⁾						Nominal volume l (lbs)	Part no. Valve type ⁶⁾		Amount filled ⁵⁾			Empty weight approx. kg (lbs)
	UN/π	EAC	TC	DOT	ABS	LR		A / A25	B / B25 (not UL / ULC)	min.	max.		
										kg (lbs)	VdS kg (lbs)	CE / UL / ULC / FM kg (lbs)	
25 (360)	●	●	—	—	—	—	22.0 (60)	926222	926223	8.8 (19.5)	23.1 (50.9)	26.4 (58.2)	50 (110)
	●	●	—	—	—	—	40.0 (100)	926224	926225	16 (35.3)	42 (92.5)	48 (105.8)	59 (130)
	●	●	—	—	—	—	80.0 (220) ⁸⁾	926260	926261	32 (70.6)	84 (185.1)	96 (211.6)	104 (229)
	●	●	●	●	●	●	80.0 (220) ⁹⁾	926258	926259	32 (70.6)	84 (185.1)	96 (211.6)	99 (218)
	●	●	●	●	●	●	140.0 (390)	926262	926263	56 (123.5)	147 (324.0)	168 (370.3)	131 (289)
	●	●	●	●	●	●	180.0 (500)	926264	926265	72 (158.8)	189 (416.6)	216 (476.1)	179 (395)
42 (610)	●	●	—	—	—	—	22.0 (60)	926226	926227	8.8 (19.5)	23.1 (50.9)	26.4 (58.2)	50 (110)
	●	●	—	—	—	—	40.0 (100)	926228	926229	16 (35.3)	42 (92.5)	48 (105.8)	59 (130)
	●	●	—	—	—	—	80.0 (220) ⁸⁾	926268	926269	32 (70.6)	84 (185.1)	96 (211.6)	104 (229)
	●	●	●	●	●	●	80.0 (220) ⁹⁾	926266	926267	32 (70.6)	84 (185.1)	96 (211.6)	99 (218)
	●	●	●	●	●	●	140.0 (390)	926270	926271	56 (123.5)	147 (324.0)	168 (370.3)	131 (289)
	●	●	●	●	●	●	180.0 (500)	926272	926273	72 (158.8)	189 (416.6)	216 (476.1)	179 (395)
50 (725)	●	●	—	—	—	—	22.0 (60)	926230	926231	8.8 (19.5)	23.1 (50.9)	26.4 (58.2)	50 (110)
	●	●	—	—	—	—	40.0 (100)	926232	926233	16 (35.3)	42 (92.5)	48 (105.8)	59 (130)
	●	●	—	—	—	—	80.0 (220) ⁸⁾	926276	926277	32 (70.6)	84 (185.1)	96 (211.6)	104 (229)
	●	●	●	●	●	●	80.0 (220) ⁹⁾	926274	926275	32 (70.6)	84 (185.1)	96 (211.6)	99 (218)
	●	●	●	●	●	●	140.0 (390)	926278	926279	56 (123.5)	147 (324.0)	168 (370.3)	131 (289)
	●	●	●	●	●	●	180.0 (500)	926280	926281	72 (158.8)	189 (416.6)	216 (476.1)	179 (395)

⁵⁾ Order informations

The order has to be specified with the filling quantity.
The extinguishing agent FK-5-1-12 part no. 888054
must be ordered additionally.

⁶⁾ Valve type A / A25 (25 bar):

Valve B0482-A DN33 / B0481-A DN49
Valve B0482-A25 DN33 / B0481-A25 DN49 (for 25 bar)

Valve type B / B25 (25 bar):

(Valves with integrated electrical release)
Valve B0482-B DN33 / B0481-B DN49
Valve B0482-B25 DN33 / B0481-B25 DN49 (for 25 bar)

⁷⁾ Approval with collective certificate by:

- UN/π, notified body according to European directive 2010/35/EU
- EAC, notified body according to techn. regulations TR ZU 032/2013
- UN, design of steel cylinder as UN Pressure Receptacles
- TC (Transport Canada)
- DOT (US Department of Transportation)
- ABS (American Bureau of Shipping)
- LR (Lloyd's Register)

⁸⁾ 80.0 l - Exting. agent cylinder with øD = 267 mm (10.51")

⁹⁾ 80.0 l - Exting. agent cylinder with øD = 406 mm (15.98")

Extinguishing technology Halocarbon agents

Cylinder Halocarbon agents assembled

Extinguishing agent cylinder UL/FM (drawn) 22 l, 40 l, 80 l, 140 l, 180 l

Technical data

Extinguishing agentFK-5-1-12

Fill ratio:

- min.0.4 kg/l (25.0 lbs/ft³)
 - max. VdS1.05 kg/l (65.5 lbs/ft³)
 CE / UL / ULC / FM1.2 kg/l (74.9 lbs/ft³)

Operating temperature range:

- VdS / CE-20 °C to +50 °C (-4 °F to 122 °F)
 - UL / ULC / FM-18 °C to +50 °C (0 °F to 122 °F)

Cylinder filledby a qualified filling centre

Filling reportwith order no. and cylinder no.

Transportsee safety data sheet

Valvessee cylinder valve

Technical data steel cylinder (blank):

Steel cylinder made in Chinaseamless (drawn)

Working pressuremax. 60 bar / 60 °C (870 psi / 140 °F)

FinishRAL3000 - flame red

(Note: colour, colour type are part of the UL / ULC approval)

Marking and stamping according to:

- UN/πacc. to directive 2010/35/EU, ISO 13769
 - EACEurasian Economic Union and regulations TR ZU 032/2013
 - UNUN Model Regulations
 - TCTC regulations
 - DOTDOT regulations
 - ABSABS regulations
 - LRLR regulations

Additional marking:

- Owner marking, **Minimax** **Feuerschutz**MF
 - Owner no. (acc. to order)xxxxxxx
 - Tare weightxxxxxxx

Not included in delivery

Adapter M12x1.5 - G1/8887644, see ad-on part cylinder

Contact pressure gaugesee monitoring device

Clamp for extinguishing agent cyl.see cylinder rack

Release devices for valve type A / A25 and B / B25:

Pneumatic, Pneumatic/Manual, Manual,

Tackle pneumatic/manual - marinesee ad-on part cylinder

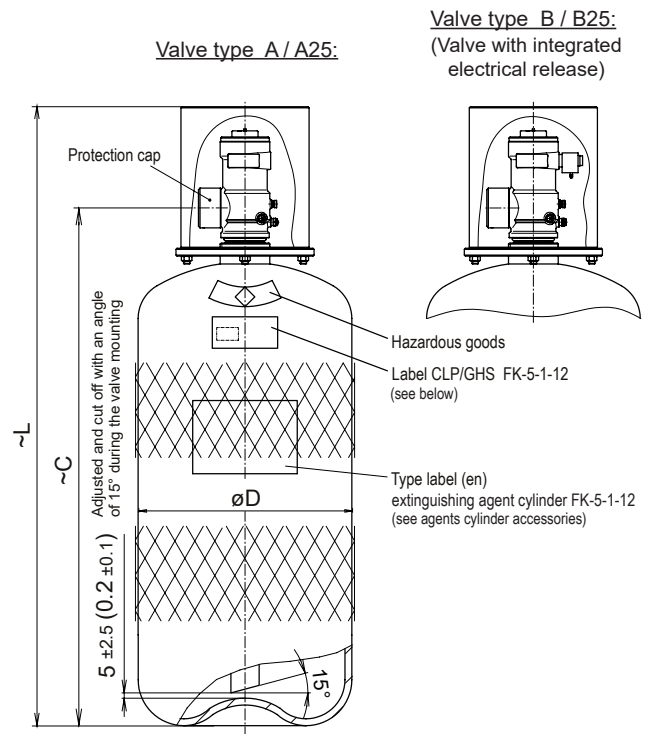
Release devices for valve type A / A25 only:

Electrical and

Electrical with mech. blocking devicesee ad-on part cylinder

Dimension drawing

Dimensions in mm (inch)



Nominal volume	~L	~C	øD ±3 (±0.12)	Nominal diameter valve
22.0 l (60 lbs)	970 (38.19)	749 (29.49)	232 (9.13)	DN33
40.0 l (100 lbs)	1450 (57.09)	1229 (48.39)	232 (9.13)	
80.0 l (220 lbs)	2000 (78.74)	1797 (70.75)	267 (10.51)	DN49
80.0 l (220 lbs)	1090 (42.91)	887 (34.92)	406 (15.98)	
140.0 l (390 lbs)	1570 (61.81)	1367 (53.82)	406 (15.98)	
180.0 l (500 lbs)	1910 (75.20)	1707 (67.20)	406 (15.98)	

Label CLP/GHS FK-5-1-12

FK5-1-12 überlagert mit Stickstoff
FK5-1-12 charged with nitrogen

Stoffname / name of substance	Vol. %	EG-Av. IEG no.
dodecafluor-2-methylpentan-3-one	80-99	436-719-6
Stickstoff / nitrogen	<20	231-783-9

Platz für Adressaufkleber
space for address label

Achtung
Warning

H280: Enthält Gas unter Druck; kann bei Erwärmung explodieren.
H412: Schädlich für Wasserorganismen, mit langfristiger Wirkung.
P273: Freisetzung in die Umwelt vermeiden.
P410: Vor Sonnenbestrahlung schützen.
P403: An einem gut belüfteten Ort aufbewahren.
H280: Contains gas under pressure; may explode if heated.
H412: Harmful to aquatic life with long lasting effects.
P273: Avoid release to the environment.
P410: Protect from sunlight.
P403: Store in a well-ventilated place.

Address label of the distributor (system manufacturer) according to order



Manual call points

DMX indoor application, addressable

Manual call point DMX SA 908-I red



Technical specifications

Function	Type A, latching contact
Technology/protocol	Loop AP / XP95 / Discovery (CoreProtocol ¹⁾) (via DIP-schwitch)
Recommended protocol FMZ 5000/DCP-1	Discovery
Integrated short circuit isolator	yes
No. of detectors per loop for mixed automatic and manual	max. 126 units
Operating voltage	17 V - 35 V DC
Quiescent current	100 µA
Alarm current (incl. LED)	4 mA
Alarm indication	1 LED, red
IP rating (EN 60529)	IP 44
Enclosure material	Polycarbonate
Color	red
Operating temperature	-40 °C to + 70 °C (-40°F to +158 °F)
Relative humidity (IEC 721-3-3)	max. 95% no condensation
Specification according to	EN 54-11 EN 54-17
Weight	approx. 180 g (0.40 lbs)
Dimensions	90 x 90 x 63 mm (WxHxD) 3.5 x 3.5 x 2.5 inch (WxHxD)

Part no.: 923164

Analog addressable manual call point with integrated dual-isolator for indoor areas, in accordance with EN 54-11 and EN54-17. Applicable for operation in fire alarm panels with Loop AP protocol (Discovery & XP95). Addressing via DIP switches. The address can also be modified after installation. Markings or labels which do not comply with the standard will void the EN 54-11 approval. Operating instructions and address information are included with the detector.

Included in delivery

1 key to reset / open the MCP,

Not included in delivery

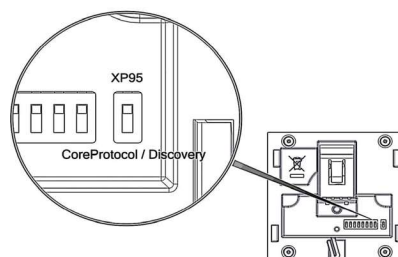
Mounting hardware

Connection / mounting

Connection cable	2-wire
Recommended cable, standard J-Y(ST)Y-2x2x0.8 mm	747180
Recommended cable for circuit integrity JE-H(ST)H E30 2x2x0.8 mm	907940
Conductor cross-section	max. 2.5 mm ² (AWG 13)
Electrostatic shielding	not required

Note

Observe DIP switch position! Select and configure the communication protocol via the DIP switches.



Approvals / marking



G 218007



2531-CPR-CSP11028
0832-CPR-F2054